

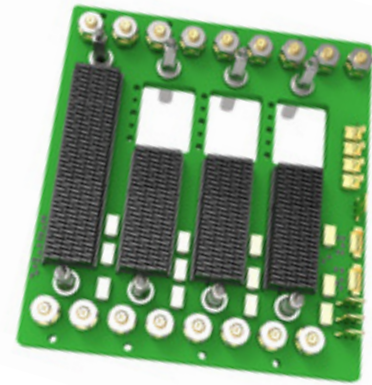
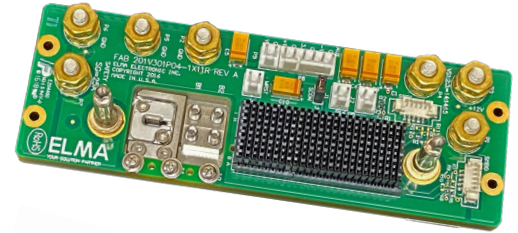
VPX Power & Ground Only

3U VPX BACKPLANES WITH VITA 66.X OR 67.X APERTURES

DESCRIPTION

Elma's 3U 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 the latest VITA 46 specifications
- Power and ground only backplane for faster, low-cost development
- 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
- Compliant to the latest VITA 46 / 66 / 67 specifications

BOARD SPECIFICATIONS

- 10-14 layers (varies)
- 2 oz. copper power and ground
- PCB UL recognized 94V-0
- PCB FR-4 or equivalent
- PCB .212" thick

MECHANICAL SPECIFICATIONS

- 3U height
- 1, 3, and 4 slots available

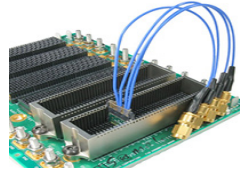
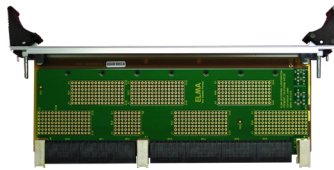
APPLICATIONS

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

- | | |
|--|---|
| <ul style="list-style-type: none"> › Mission control › Secure communications › Surveillance › Data and image processing › Weapons control | <ul style="list-style-type: none"> › Target tracking and display › Navigational control › Threat detection › Process monitoring › Environmental monitoring |
|--|---|

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RELATED PRODUCTS

- › 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

ORDER INFORMATION

Model #	Size	Total # Slots	Aperture	Supports VITA 6X.x module	VITA 6x module installed?	Details	RoHS	Max data rate (Gbps)
101V301P02-9X13	3U	1	E	66.4/67.3A/67.1 in J2A+B 3 x 67.3C	no		No	25
101V301P02-9X13R	3U	1	E	66.4/67.3A/67.1 in J2A+B	no		Yes	25
101V301P03-9X13	3U	1	E	66.4/67.3A/67.1 in J2B	no		No	25
101V301P03-9X13R	3U	1	E	66.4/67.3A/67.1 in J2B	no		Yes	25
101V301P04-9X13	3U	1	H	67.3C	no		No	25
101V301P04-9X13R	3U	1	H	67.3C	no		Yes	25
101V301P05-9X13	3U	1	J	67.3D/66.5	no		No	25
101V301P05-9X13R	3U	1	J	67.3D/66.5	no		Yes	25
101V301P06-9X13	3U	1	K	67.3E	no		No	25
101V304P12-9X13	3U	4	E	3 x 67.3C/66.5	no	Apertures in J2 of slots 2,3, and 4	No	25
101V301P02-9X01R	3U	1	E	66.4/67.3A/67.1 in J2A+B	Amphenol SF1132-6037	VITA 67.1 connector	Yes	10
101V301P02-9X12	3U	1	E	66.4/67.3A/67.1 in J2A+B	no		No	10
101V301P02-9X12R	3U	1	E	66.4/67.3A/67.1 in J2A+B	no		Yes	10
101V301P03-9X12	3U	1	E	66.4/67.3A/67.1 in J2B	Smiths Interconnect 415-00004	VITA 66.4 connector in J2B	No	10

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ORDER INFORMATION

Model #	Size	Total # Slots	Aperture	Supports VITA 6X.x module	VITA 6x module installed?	Details	RoHS	Max data rate (Gbps)
101V301P04-9X12R	3U	1	H	67.3C	no		No	10
101V301P05-9X12	3U	1	J	67.3D/66.5	no		No	10
101V301P05-9X12R	3U	1	J	67.3D/66.5	no		Yes	10
101V301P06-9X12	3U	1	K	67.3E	no		Yes	10
101V301P06-9X12R	3U	1	K	67.3E	no		No	10
101V301P01-9002 (1900002759-0000)	3U	1	G	67.2/67.3B in J2A	TE 1996777-2	VITA 67.2 connector	No	3.125
101V301P02-9001R	3U	1	E	66.4 in J2A	TE 2226880-1	VITA 66.4 connector	Yes	3.125
101V301P03-9001	3U	1	E	66.4/67.3A/67.1 in J2B	TE 2226880-1	VITA 66.4 connector in J2B	No	3.125
101V301P03-9001R	3U	1	E	66.4/67.3A/67.1 in J2B	TE 2226880-1	VITA 66.4 connector in J2B	Yes	3.125
101V301P03-9002R	3U	1	E	66.4/67.3A/67.1 in J2B	TE 1996884-1	VITA 67.1 connector in J2B	Yes	3.125
101V301P03-9003R	3U	1	E	66.4/67.3A/67.1 in J2B	no		Yes	3.125
101V301P03-9003	3U	1	E	66.4/67.3A/67.1 in J2B	no		No	3.125
101V301P03-9004	3U	1	E	66.4/67.3A/67.1 in J2B	TE 2226880-1	VITA 66.4 connector in J2B and RT2-R ruggedized VPX conn	No	3.125
101V301P03-9005	3U	1	E	66.4/67.3A/67.1 in J2B	Smiths Interconnect 415-00004	VITA 66.4 connector in J2B	No	3.125
101V301P03-9006	3U	1	E	66.4/67.3A/67.1 in J2B	TE 2226880-1	VITA 66.4 connector in J2B and RT2-R ruggedized VPX conn	No	3.125
101V301P04-9002	3U	1	H	67.3C	no		No	3.125
101V301P04-9003	3U	1	H	67.3C	TE 2828775-1	VITA 67.3C connector in J2	No	3.125
101V301P04-9003R	3U	1	H	67.3C	TE 2828775-1	VITA 67.3C connector in J2	Yes	3.125
101V301P05-9002R	3U	1	J	67.3D/66.5	no		Yes	3.125
101V301P05-9003R	3U	1	J	67.3D/66.5	TE 2313376-1	VITA 67.3C connector in J2	Yes	3.125
1900002601-0000R	3U	3	E	2 x 66.4		Apertures in J2 of slots 2 & 3	No	3.125

Contact Elma for different VITA 66 or 67 aperture configurations.

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Please contact our sales team for more details.
 United States: +1 510 656 3400
 France: +33 388 56 72 50

 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