DATA SHEET

VPX Power and Ground Only

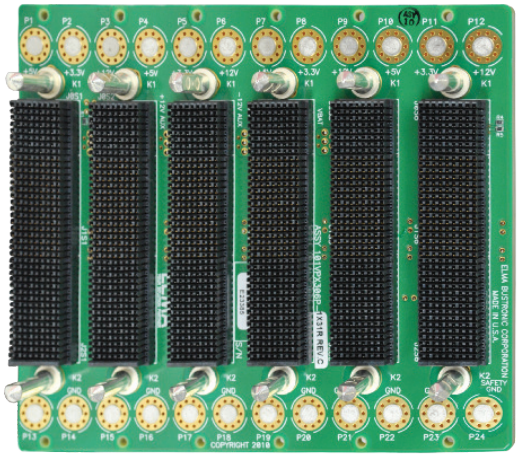
3U BACKPLANES WITH NO APERTURES

ELMA
Your Solution Partner

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, 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
- 3.3V, 5V, 12V, 3.3V_AUX, +12V_AUX, and -12V_AUX power
- P0-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

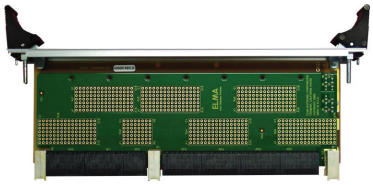
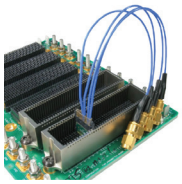
- 3U height
- Available in 1, 5, 6 and 17 slots

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
- Blade level networking boards (Ethernet, PCI Express)
- Rackmount, desktop, and ATR chassis platforms
- Backplane interconnect cabling

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ORDER INFORMATION

Model #	Size	Total # Slots	Aperture	Supports VITA 6x.x modules	VITA 6x.x module installed?	Details	ROHS	Max data rate (Gbps)
101VPX301P-9X13	3U	1	none	none	n/a		Yes	25
101VPX301P-9X21R	3U	1	none	none	n/a		Yes	10
101VPX301P-9X22R	3U	1	none	none	n/a	P2B & RP2B Not loaded	Yes	10
101VPX305P-9X21R	3U	5	none	none	n/a		Yes	10
101VPX306P-9X12R	3U	6	none	none	n/a		Yes	10
101VPX301P-1X31R	3U	1	none	none	n/a		Yes	3.125
101VPX301P-9001	3U	1	none	none	n/a	Conformal coating	No	3.125
101VPX301P-9004	3U	1	none	none	n/a	P2 & RP2 Not loaded	No	3.125
101VPX301P-9005	3U	1	none	none	n/a	RT2-R ruggedized conn	No	3.125
101VPX305P-1X31R	3U	5	none	none	n/a		Yes	3.125
101VPX305P-9004	3U	5	none	none	n/a	RT2-R ruggedized conn	No	3.125
101VPX305P-9K03R	3U	5	none	none	n/a	Conformal coating	Yes	3.125
101VPX305P-9K05	3U	5	none	none	n/a	Conformal coating	No	3.125
101VPX306P-1X31R	3U	6	none	none	n/a		Yes	3.125
101VPX306P-9005	3U	6	none	none	n/a	No RTMGA changed to 7-12	No	3.125
101VPX317P-1X31R	3U	17	none	none	n/a		Yes	3.125

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