

VPX Power and Ground Only

BACKPLANES WITH NO 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 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 / 65 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

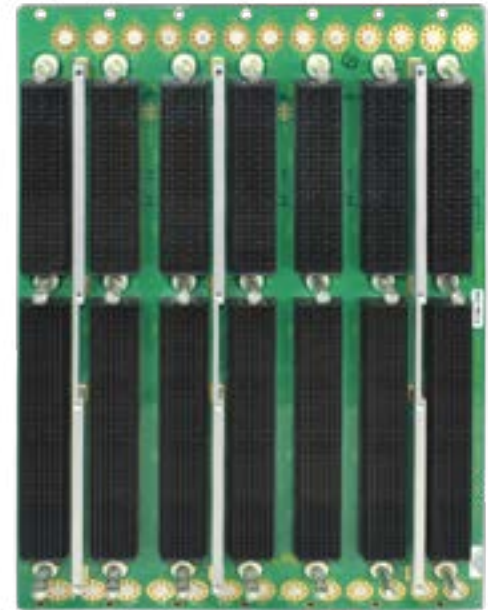
APPLICATIONS

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



Mechanical specifications

- 6U and 7U heights
- 6U backplanes available in 1, 4, 6, 7 or 15 slots
- 7U backplanes available in 1, 4, or 6 slots



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ORDER INFORMATION

Model #	Size	Total # Slots	Aperture	Supports VITA 6x module	VITA 6x module installed	RoHS	Max data rate (Gbps)
101VPX601P-9X12R	6U	1	none	none	n/a	Yes	10
101VPX701P-9X12R	7U	1	none	none	n/a	Yes	10
101VPX601P-9X13R	6U	1	none	none	n/a	Yes	25
101VPX701P-9X13	7U	1	none	none	n/a	No	25
101VPX701P-1X40R	7U	1	none	none	n/a	Yes	3.125
101VPX604P-1X40R	6U	4	none	none	n/a	Yes	3.125
101VPX704P-1X40R	7U	4	none	none	n/a	Yes	3.125
101VPX704P-9X12R	7U	4	none	none	n/a	Yes	10
101VPX606P-9X12R	6U	6	none	none	n/a	Yes	10
101VPX706P-9X12R	7U	6	none	none	n/a	Yes	10
101VPX706P-1X40R	7U	6	none	none	n/a	Yes	3.125
101VPX607P-9X12R	6U	7	none	none	n/a	Yes	10
101VPX607P-1X40R	6U	7	none	none	n/a	Yes	3.125
101VPX615P-1X40R	6U	15	none	none	n/a	Yes	3.125

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China: +86 21 5866 5908
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
United States: +1 510 656 3400