

Power Interface Board (PIBs)

6U, OpenVPX™ Backplanes

**Front View****Rear View**

Description

Power Interface Boards (PIBs) facilitate the use of pluggable power supplies with the power section of the backplane. Elma Bustronic's standard backplanes use power taps and power studs which are typically wired to power supplies. With PIBs, customers can now choose between Elma Bustronic's power interface and pluggable supplies.

Power Interface Boards are available for convection cooled 6U VPX systems; the conduction cooled version is slightly shorter.

The board has one VITA 62-compliant power supply connector, a header for voltage sense and IPMB. Power nuts are for the input voltage to the supply and 12V, 3.3V, 5V and ground for output voltages. Each board includes mounting holes to secure to the chassis.

Features

- Complies with VITA 62 and IEEE 1101.10
- Interface to backplane via 6-32 power nuts
- Headers for power switch, voltage sense, current share and IPMB interface
- Selectable geographical addressing
- 6U height with connector for a single supply (ask about a dual supply version)
- Available for use in conduction or convection cooled chassis

Board Specifications

- 12-layer stripline design
- 2 oz. copper outer and inner layers
- 0.200" thick PCB, UL recognized 94V-0 and FR-4 or equivalent

Mechanical Specifications

- For use in 6U height OpenVPX system chassis with single power supply connector
- 10.31" X 1.45"

Related Products and Applications

- Highly integrated applications such as:
- Integrated display processing, mission management and navigational control for avionics systems
- Industrial monitoring, medical equipment, and night-vision systems requiring enhanced graphics capabilities
- Shipboard systems for target tracking and high definition displays
- Applications requiring a mix of I/O options, high compute density and enhanced graphics



- Rear Transition Modules for I/O
- Intel & Freescale Single Board Computers
- Blade level networking boards (Ethernet, PCI Express)
- Rackmount, desktop, and ATR chassis platforms
- Ruggedization programs

VPX

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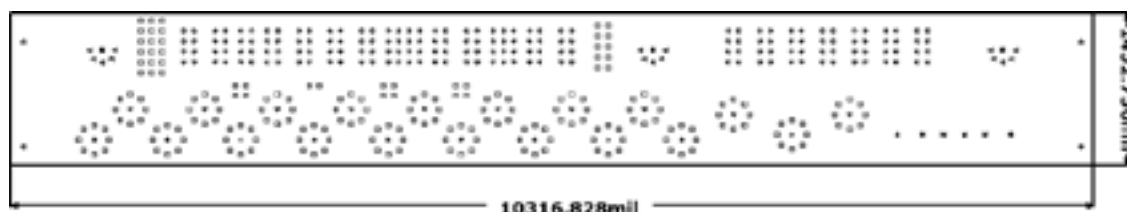


Backplanes



VPX

Line Drawings



Order Information

Height	Description	Order Number
6U	Convection Cooled Power Interface Board, according to VITA 62 Standards	106PIBC601-0000R