



Description

The Elma Bustronic 2-slot test backplanes are unique tools that lets VPX card developers and system integrators test VPX boards. The device allows the user to power up test their J1 fabric connections as they would be interconnected in the target application. Signals can be passed from one slot to the next via high speed interconnecting cables or via signals introduced through the J1 fabric connector.

The SMA/SATA version also allows access for these types of connections. Additional 2-slot Test Backplanes can be used in a larger chassis to interconnect the J1 primary fabric in any serial topology desired. Signals in any other connector position may be interconnected or accessed using optional MultiGig cable headers or typical commercial RTM modules. Note that rear cables and RTM connectors cannot be used at the same time in the same slot.

Unlike other access methods, such as rear VPX cables alone or special high speed RTM break out boards, the Elma Bustronic 2-slot Test backplane allows primary J1 fabric signals to be accessed/interconnected/injected without interfering with the use of an existing RTM module designed for J2-J6 IO connector signals. Custom backplanes are often required to interconnect the primary fabric signals between multiple VPX blades for a specific application. However, it is desirable to be able to connect two or more such blades with a test backplane before investing the time or expense of a custom VPX backplane.

Features

- For convenient testing of VPX/OpenVPX boards
- Designed to meet the latest VITA 46.0 and VITA 65 specifications
- Accepts either 3U or 6U VPX cards by use of the configuration jumpers on the rear of the backplane and a 3U shelf divider
- Wider slot pitch allows more space for attaching to probes
- SMA/SATA version has J1 "A" channel broken out to sixteen SMA connectors for each slot (32 total)
- SMA/SATA version has J1 "B", "C", and "D" channels are each broken out to four SATA II cable headers for a total of 12 headers per slot (24 total)
- Allows simultaneous access of J1 fabric signals with standard VPX RTM module for J2-J6 signals
- More than two VPX modules may be interconnected by using additional 2-slot test backplanes

Board Specifications

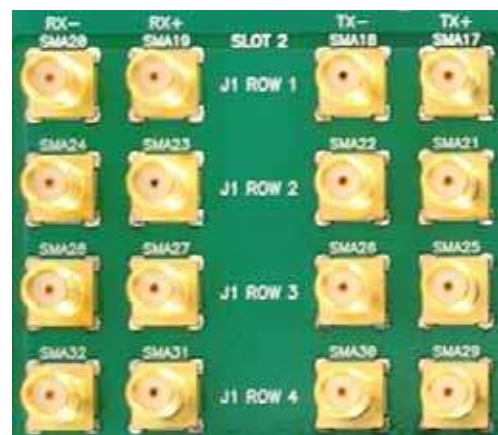
- 10-layer board (version w/SMA), 8-layer board (version w/o SMA)
- 2 oz. copper power and ground
- PCB FR-4 or equivalent
- PCB .213" thick

Mechanical Specifications

- 6U height
- 2 slots
- 10.317 x 5.15 inches
- MultiGig RT-2 connectors
- 1.6" pitch



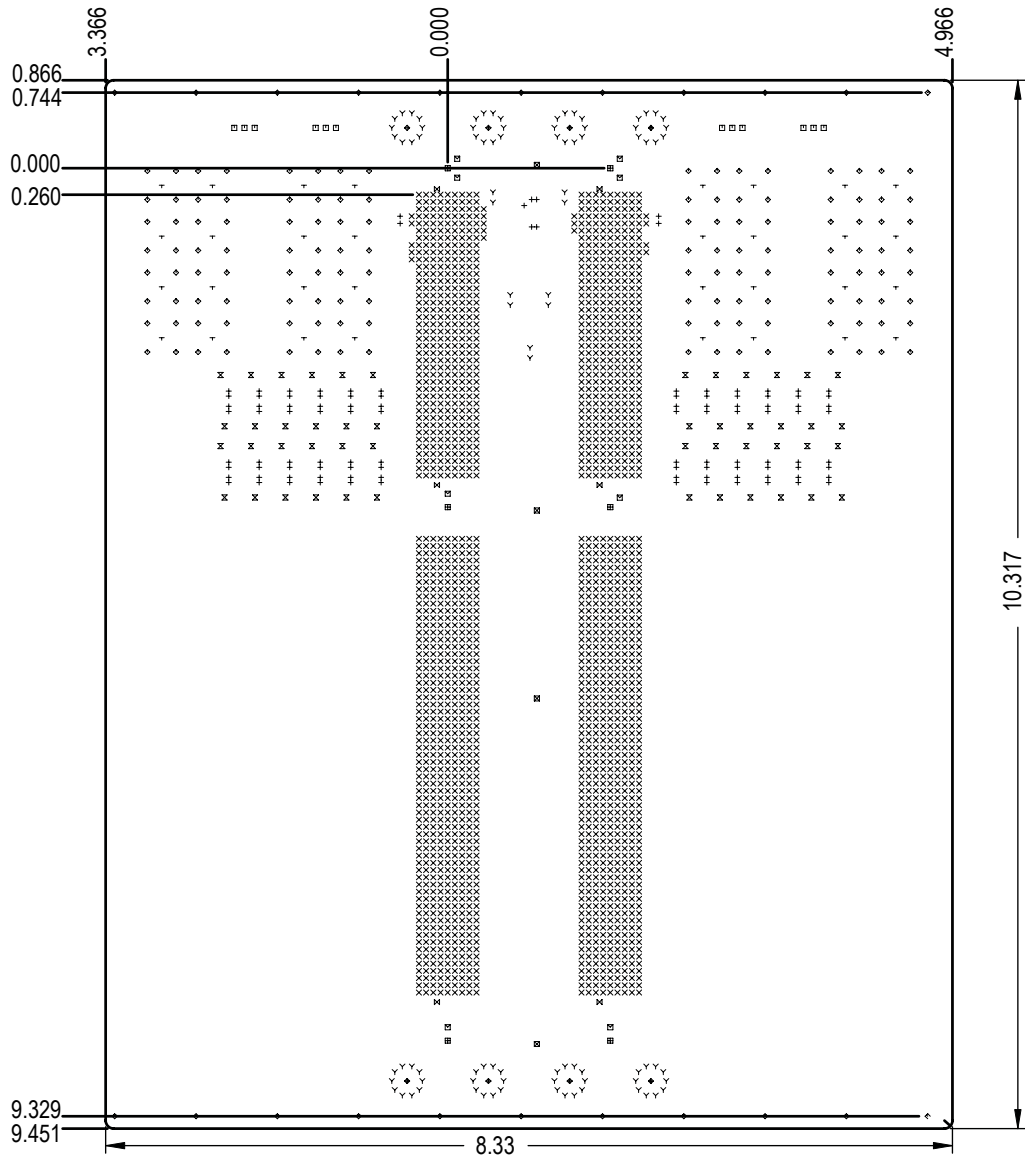
Version with SMA/SATA



Close-up of SMA Contacts

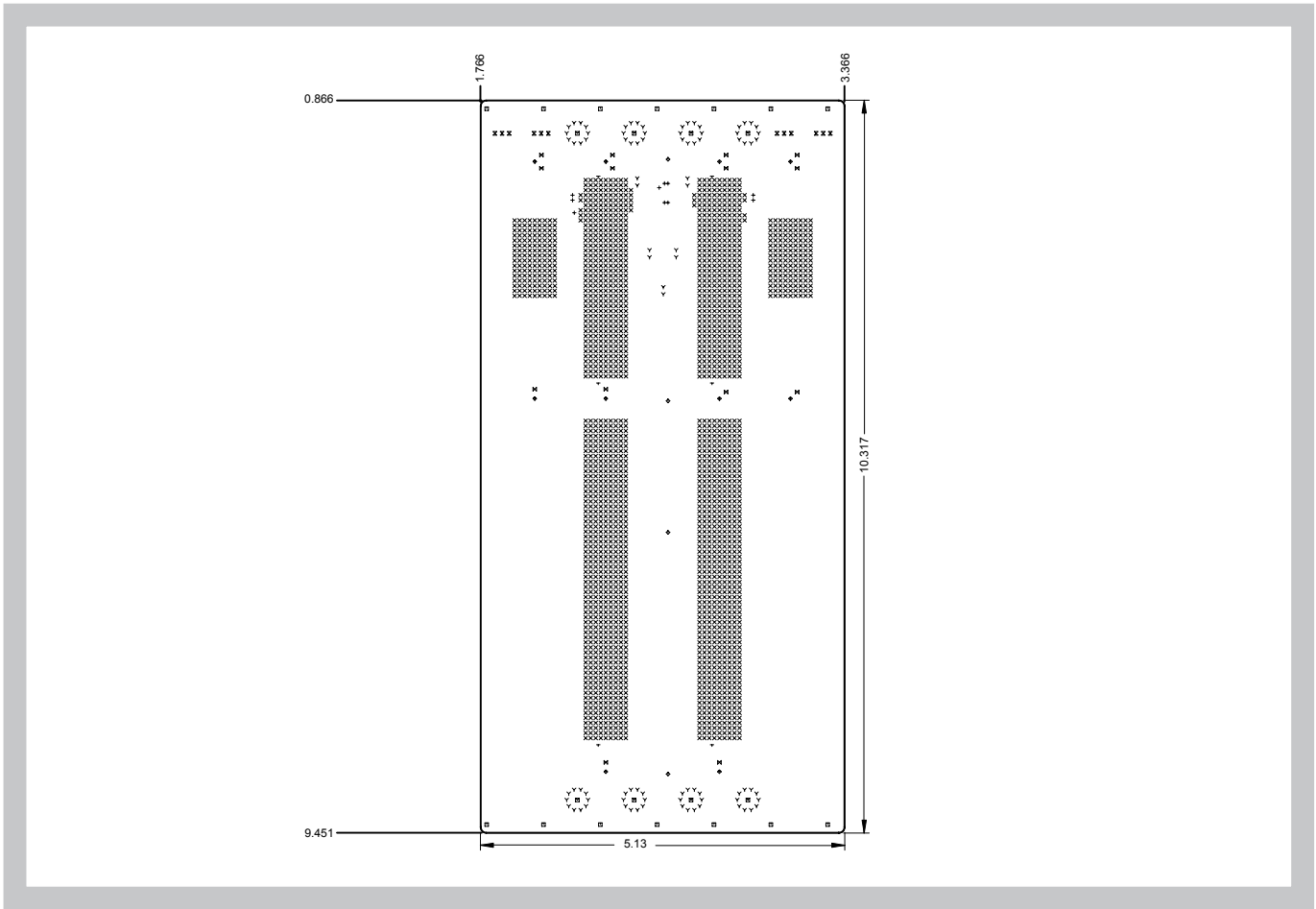
VPX Test Backplane

Line Drawing Version with SMA/SATA



VPX Test Backplane

Line Drawing Version without SMA/SATA



ORDER INFORMATION

Height	Total Slots	Description	Part Number
6U	2	With SMA/SATA	1900002083-0000R
6U	2	For direct wafer to wafer MultiGig cable connector	1900002311-0000R

Related Products from Elma Electronic:

- Open frame test chassis – need a chassis for your backplane?
- VPX Embedded Computing Products – SBCs, Switches, Storage, and More



Did you know we also offer with this VPX backplane:

- VPX Extenders, load boards, RTMs, test modules and VPX Cabling

System
Platforms

Backplanes

Enclosures &
Components

Cabinets

Rotary
Switches

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