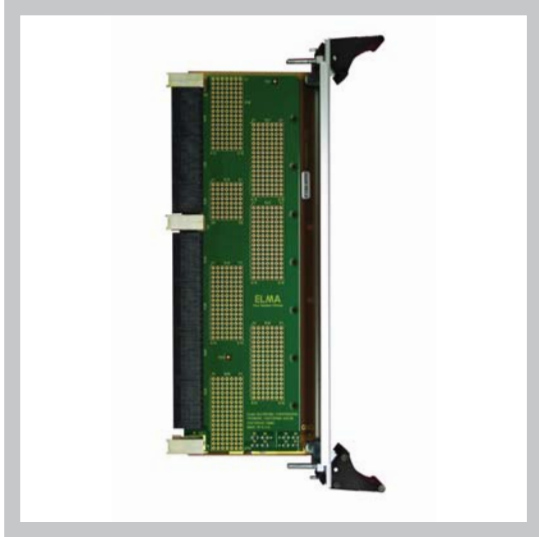


UNIVERSAL VPX RTM BREAKOUT BOARD



FEATURES

- 6U x 80 mm RTM format
- Designed to meet VITA 46.10 for VPX RTM modules
- Supports 2 Level Maintenance per VITA 46.0 section 4.5
- 10 layer design
- Breakout for all signals possible depending upon connector configuration
- All the available RTM signals from connectors rJ0-rJ6 are broken out to .010" x .010" grids of solder pads
- Front panel and injector/ejector optional, with all necessary holes provided
- Strain relief holes provided directly behind the front panel mounting location for clamping bar or wire-ties

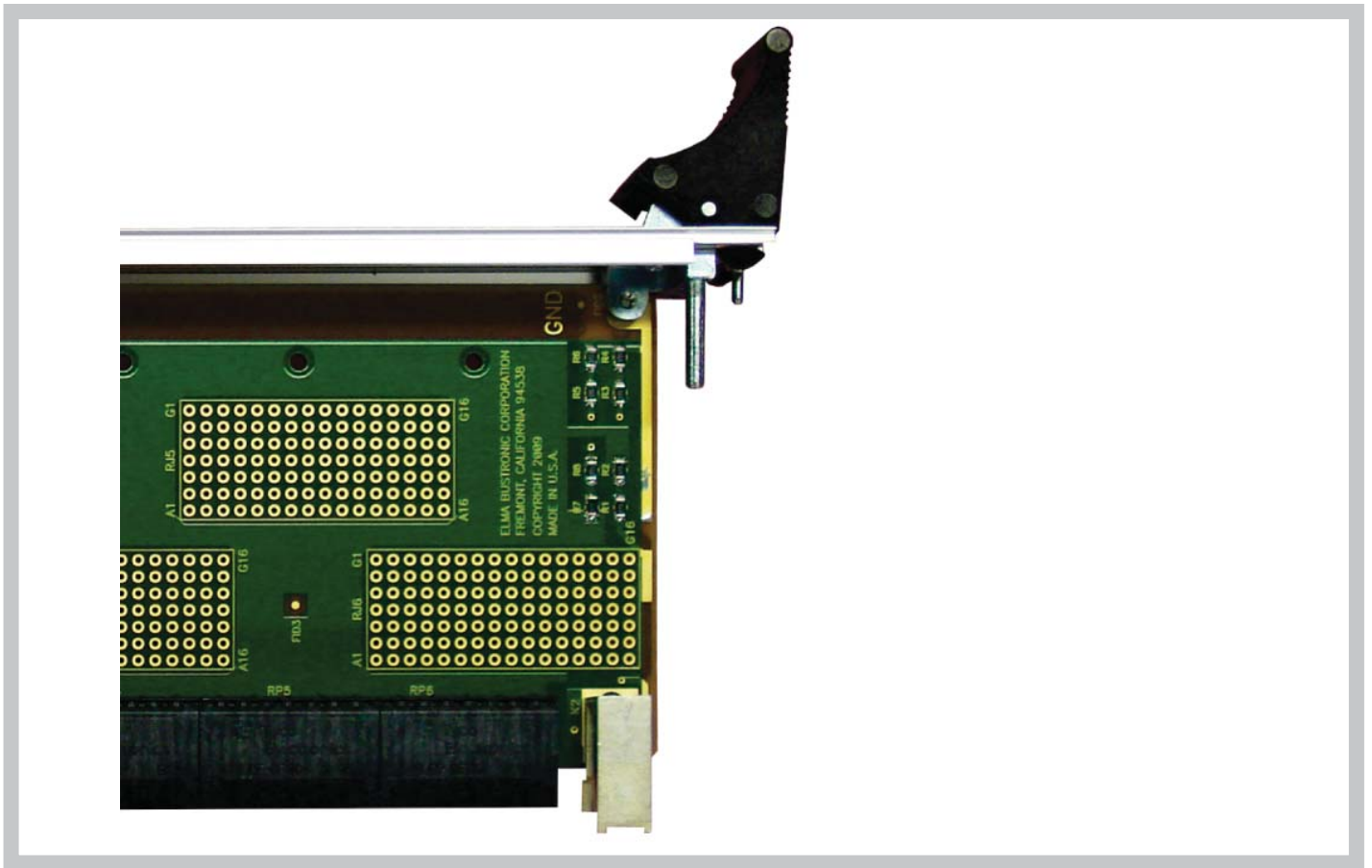
DESCRIPTION

The Universal VPX RTM Breakout Board can allow a test engineer to access I/O signals on custom built VPX boards. The breakout board is designed for the utility, power, single ended or low speed differential signals during setup and testing of a new system. During system integration, it often is desirable to access certain utility signals such as VS1, VS2 or VS3, auxiliary voltages other signals such as Geographic address or the system management bus which are all available from the rear side of the backplane. Other single ended signals such as System Reset, G-Discrete, Maskable Reset or NVMRO can be broken out if desired. Low voltage user defined "i" row signals or low voltage I/O signals that may be TTL or low speed differential can be accessed.

All the available RTM signals from connectors rJ0, rJ1, rJ2, rJ3, rJ4, rJ5 and rJ6 are broken out to a .010" x .010" grid of solder pads on the face of the PCB. Wires may be soldered to the desired positions and terminated in user supplied D-Sub connectors or the wire tails may simply be brought out to the edge of the board to logic or voltmeter probes.

Cut-outs are provided on the 4HP front panel if the customer wishes to terminate his signals to D-Sub connectors. In addition, holes are provided on the PCB along the edge adjacent to the front panel to secure clamping bars or wire ties to provide strain-relief for cables brought to the edge of the RTM module. Multi-stage ground circuitry along with card guide ground strips are provided in the bottom right hand corner of the RTM, to implement the ESD grounding as defined by VITA 46.0.

BREAKOUT BOARD CLOSE-UP



ORDER INFORMATION

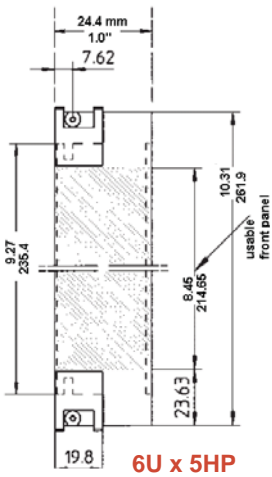
Height	Description	Part Number
6U	6U x 80 mm, Universal RTM Breakout Board for VPX	1940000352-0000R

UNIVERSAL VPX RTM BREAKOUT BOARD

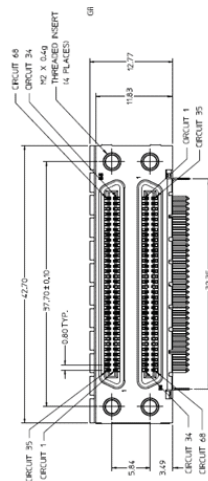
Custom VPX RTMs would use higher speed connectors such as the Infiniband cable connector or coaxial connectors to bring out high speed differential signals. Each of the six MultiGig connectors can bring out 32 differential pairs 192 differential pairs (plus grounds) on a 6U card. See the table below.

VARIOUS POSSIBLE RTM I/O CABLE CONNECTORS

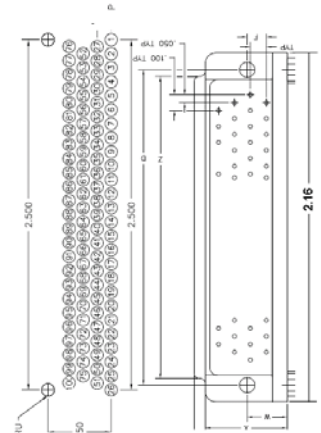
Contacts Possible within Useable 6U x 5HP Front Panel					
Connector	Length	Contacts	Pairs	8.45 Useable	Total
Stacked SCSI	42.7 / 1.68	136	68	5+	680
Airborn	54.9 / 2.16"	100	N/A	3.9	300
Infiniband	58.55 / 2.31	48	24	3.6	144
CP-50	70.2 / 2.8"	96 (144)	48	3.0	432
1x4 RJ45	59.1 / 2.36"	8	4	3.5	28 (14 conn)



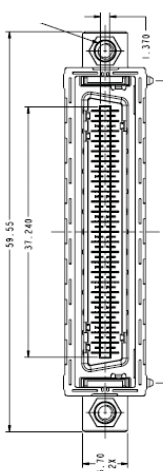
6U x 5HP



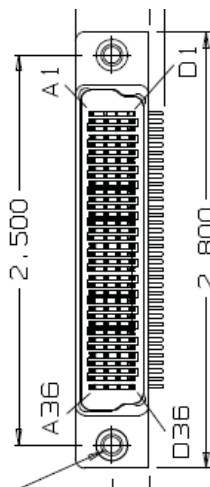
Stacked SCSI



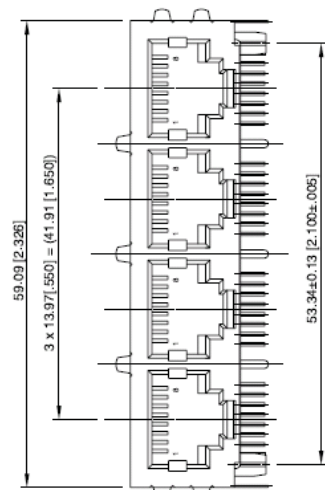
Airborn MK



Infiniband 12x



CP-50 Meritec



1x4 RJ45