

Description

Elma Bustronic has developed custom RTMs for various architectures, including VPX, ATCA, VME64x, and more. An RTM helps bring IO off the backplane and this can be achieved in various configurations to meet your requirements. See below for various examples.

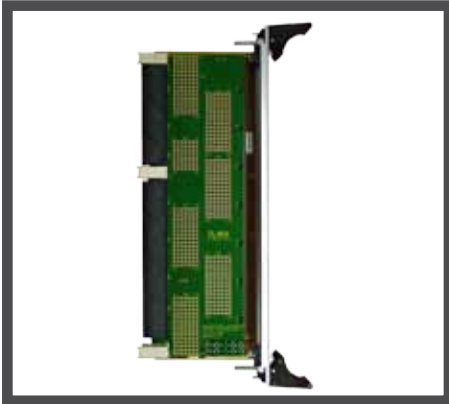
Features

- For VXS, VME/64x, cPCI, ATCA, VPX, and other architectures
- Unique rear I/O and RTM solutions for VXS and VPX
- Design and contract assembly services available
- Possible sizes include 3U x 80 mm, 6U x 80mm, 8U x 80mm and more depending on architecture
- Contact factory for ordering information



Rear Transition Modules (RTMs)

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
- Typical configuration has connectors installed to bring out J0, J2, J3 and J4 signals
- 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

The Universal VPX RTM Breakout Board can allow a test engineer to access I/O signals on custom built VPX boards. The board would not be intended for high-speed signals but would typically be used to bring out single ended TTL signals that might be part of a customer's custom IO board.

VMEbus RTMs - Compatible with Motorola SBCs



Features

- Single slot 6U x 80mm form factor
- MVME761 RTM compatible
- Includes geographical addressing
- One EIA-574 (DB9M), one EIA-574/RS422
- Using DB9M, ultra SCSI II wide (HD68F)
- 1101.10/11 style handles and gasketing
- Note: EIA-574 is the 9 pin RS232 standard
- Order Number: Consult Factory

The VMEbus RTM plugs into a VME backplane for more robust connectivity. Direct plugging offers higher resistance to shock and vibration as compared to the standard P2 / ribbon cable connection style.

Rear Transition Modules (RTMs)

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)

