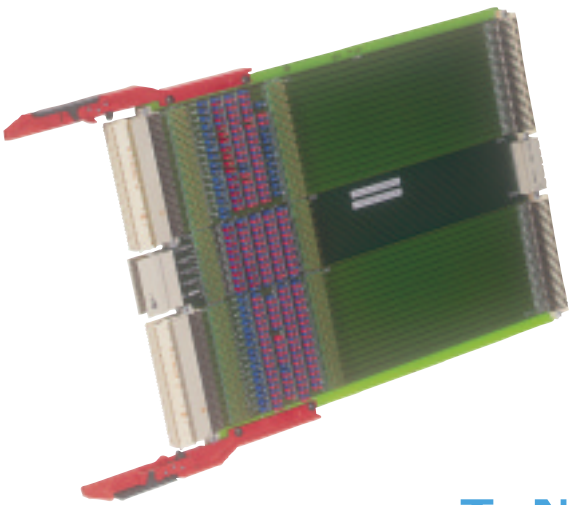
VME64x Extenderboard

ELMA Your Solution Partner

Features

- 10-layer Multilayer construction
- Assembly with/without Po connectors
- Characteristic impedance 55 Ohm +/–10%
- Handles for insertion/extraction of the daughter card
- Contact pin/jumper for each signal line
- PCB height 233.4 mm
- Extender depth 300.0 mm (for use in 160 mm card cages)
- PCB thickness 3.2 mm +/–10% (with edges milled to 1.6mm for use in standard card guides)
- Access to GND, +3.3V, +5V, +12V, –12V via fastons



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STANDARD stock keeping	Version			
	with Po			
32	2	90	-	0000
other available options	1 without Po			

Technics

The VME64x bus is one of the bus systems with extensions that can be built onto the VME64bus to considerably increases the capability of standard VMEbus systems. The logical protocols are VMEbus-compatible which, together with special connectors, make it fully compatible with existing standard VMEbus modules. Since many of the additional features are already available in the J1 range, small 3U, 16-bit systems can also benefit from the increased handling capacity. Using 160 way connectors which are plug compatible with DN41612 Type C connectors (without row d & z contacts), each plug position achieves an additional 64 signal contacts in each of the J1 and J2 range. Further, an extra Po/Jo connector with 7 x 19 contacts is defined between level J1 and J2. By using these additional contacts, the following extensions have been added:

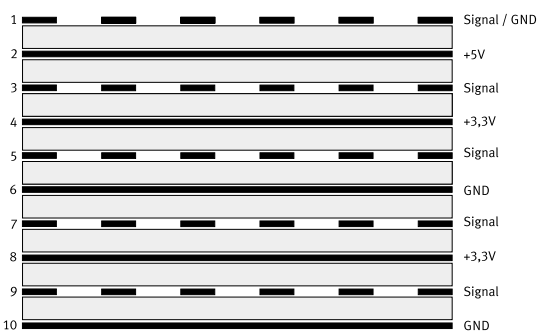
- Additional voltages (in connector P1) : +3.3V with 10 pins and 4 pins auxiliary power (+/–V1, V2)
- Three sub-buses for control, maintenance and test purposes (in connector P1)
- Geographical slot addressing with 5 pins (in connector P1)
- Considerably reduced ground shift via 54 additional GND pins (split between P1, P2 and Po)
- 141 additional user-defined I/o pins (46x in connector P2 and 95x in Po)
- Preparation of VMEbus for system level live insertion in connector P1:
  - 3 leading contacts each for +5V and GND
  - 2 pins for individual slot power control
  - 2 bus lines for live insertion control

Specifications

VME64x Extenderboard

The VME64x extender board supports the testing of daughter boards. It is plugged into the backplane in the slot for the daughter board. The daughter board is plugged onto the extender board outside the card container, making it more easily accessible. All contacts with the backplane can be controlled individually by jumpers. Configured for 6U backplanes with 160mm card depth, the extender board is available with connectors for J1/J2/Jo and for J1/J2. The test sector offers easy access, with tapping points right and left of the jumpers for all signal lines (and Jo). GND, +3.3V, +5V, +12V and –12V are linked to power layers and each is accessible through a Faston connector.

Multilayer construction



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