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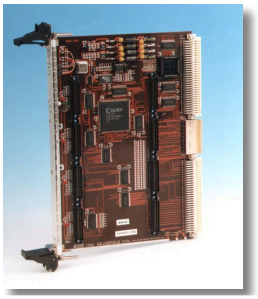
Product Catalogue

Related Products

8002 Four Site Industry Pack Carrier Board

Introduction

VME 8002



VME64 extensions Industry Pack Carrier Board. Full EMC shielding and insertion/extraction handles. Fully Hot-Swap capable with auto power-up and host interaction 6U VME base card handles upto 200 signals depending on the transition board. Choice of rear transition boards provides isolated or straight-through connections. Four Industry Pack (IP) sites for extra functionality. 3.3V and 5V supply connected to P2. The 8002 is a 6U (double height) VME board which provides Four Industry Pack sites. The module can be configured using rear mounted transition cards to work with combinations of digital and analogue inputs and outputs. The module features hot-swap capability with auto power up and host interaction. An on-board FPGA allows full mapping of the IP board memory and I/O spaces.

The unit is constructed to the VME64x standard, with EMC front panel, injector/ejector handles, guide pin and slot keying, static discharge protection, hot swap capability, geographical addressing, 5-row P1 and P2 connectors and 5-row P0 connector.

A rear-mounted transition card with four high-density 50-way [SCSI2] connectors accepts all I/O signals and provides any necessary signal conditioning. The signals connect to the main board according to the VME64x Greenspring pinout for IP module carriers.

Additional Features

There is a TTL input on the front panel to control acquisition stop/start. A microswitch in one of the handles detects insertion/removal and a hot-swap controller powers the unit smoothly up and down without disturbing the rest of the system. Host interaction during insertion/removal is in accordance with the VME64x specification. There are four IP sites on the board addressable on an individual basis . Addressing and handling of these IP sites is programmable through base control and status registers, including address offsets and interrupt mapping. The unit supports addressing in A16/D32/D16/D08(E0), A24/D32/D16/D08(EO) and A32/D32/D16/D08(EO) modes 16 OR 32BIT access for both I/O and memory to double-size IP cards. The registers and memory can be read at any time where I-P packs support arbitration.

Product Specifications

Power Requirements:

- +5V @ 600mA typical
- +12V @ 30mA
- -12V @ 30mA
- +3.3V @ 10mA
- Additional power maybe consumed by Industry Packs
- Operating Temperature Range: 0 to +45 deg Celsius ambient
- Mechanical: 6U single width VME module with access to 5 row P0, P1 and P2 connectors

Front Panel Indicators:

- VME - LED (green) illuminates for a minimum of 100msecs whenever the module is accessed via the VME bus
- Not Configured - LED (blue) indicates the status of the VME module (ON = Not configured)
- IP ACK A/B - LED (red) illuminated by IP card on Data Acknowledge

Front Panel Inputs:

- Inhibit - Single TTL. This input has a 10K pull-up resister to 5Volt supply. Connector type:0302

Ordering Information

Cat No: 8002
Name: VICB8002
Description: Four SIte IP Carrier Board

Hytec Electronics have been providing control and data acquisition systems solutions for over 35 years. Our hardware engineers design and manufacture high specification analogue and digital instrumentation for the harshest of industrial and research environments. We build quality designs into modular instruments based on the stringent standards including CAMAC, VME, VME64x, PCI and Industry Packs. Our software engineers implement sophisticated system drivers in all the leading operating systems to support our hardware. Software application engineers consult, design and implement complex control and data acquisition solutions.

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