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Related Products

VTB 8301 Isolated Digital Input Transition Board

Features

VTB 8301

- VME64 extensions / Transition Board
- Full EMC shielding and insertion/extraction handles
- RP0 and RP2 connections
- Handles 64 digital input signals, four input strobes and four output strobes and provides isolation of all signals.
- Inputs are protected against over-voltage (to 27V) and reverse voltage.
- Voltage to ensure logic 1 = 3V min. Voltage to ensure logic 0 = 2V max. Logic 1 current = 5mA.

Four 50-way SCSI-2 sockets provide ease of connection to four groups of circuitry each with 16 inputs and input/output

- strobes.

Product Description

The VTB 8301 is a 6U (double height) VME rear I/O transition board, which provides connection to the 8001Digital Input Carrier Board. It optically isolates all digital I/O (64input signals and four I/O strobes), and routes the signals from four 50-way SCSI sockets to the carrier board via the J0 and J2 connectors of the VME backplane. The board features low input current and protection against reverse voltages. An on-board 5V to 12V DC-DC converter is connected to pins on the SCSI connectors to facilitate powering the plant side of the isolators so that signal low-true operation can be used.

Construction

The unit is constructed to the VME64x standard, with EMC rear panel, injector/ejector handles, guide pin and slot keying, static discharge protection, hot swap capability, 5-row RP0 and RP2 connectors.

Signal Path

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

SCSI Connectors

Connector 1	(lowest connector) Data D0-D15, Str-In1, Str-Out1
Connector 2	Data D16-D31, Str-In2, Str-Out2
Connector 3	Data D32-D47, Str-In3, Str-Out3
Connector 4	(top connector) Data D48-D63, Str-In4, Str-Out4

Digital Input Connection Details

Signal	VME Connection	SCSI Connection
Signal High 1-16	RP2/A6-A21	Skt1/26-41
Signal Rtn 1-16	RP2/C6-C21	Skt1/1-16
Str-In1 High	RP2/A23	Skt1/44
Str-In1 Low	RP2/C23	Skt1/19
Str-Out1 High	RP2/A25	Skt1/47
Str-Out1 Low	RP2/C25	Skt1/22
Vext +24V		Skt1/25
VExt Gnd		Skt1/50

Signal High 17-32	RP2/D4, D5, Z7, D8, D9, Z11, D12, D13, Z15, D16, D17, Z19, D20, D21, Z23, D24	Skt2/26-41
Signal Rtn 17-32	RP2/Z5, D6, D7, Z9, D10, D11, Z13, D14, D15, Z17, D18, D19, Z21, D22, D23, Z25	Skt2/1-16
Str-In2 High	RP2/Z27	Skt2/44
Str-In2 Low	RP2/D27	Skt2/19
Str-Out2 High	RP2/D29	Skt2/47
Str-Out2 Low	RP2/D30	Skt2/22
Vext +24V		Skt2/25
Vext Gnd		Skt2/50
Signal High 33-48	RP0/A11, C11, E11, B12, D12, A13, C13, E13, B14, D14, A15, C15, E15, B16, D16, A17	Skt3/26-41
Signal Low 33-48	RP0/B11, D11, A12, C12, E12, B13, D13, A14, C14, E14, B15, D16, A16, C16, E16, B17	Skt3/1-16
Str-In3 High	RP0/E17	Skt3/44
Str-In3 Low	RP0/A18	Skt3/19
Str-Out3 High	RP0/D18	Skt3/47
Str-Out3 Low	RP0/E18	Skt3/22
Vext +24V		Skt3/25
Vext Gnd		Skt3/50
Signal High 49-64	RP0/A1, C1, E1, B2, D2, A3, C3, E3, B4, D4, A5, C5, E5, B6, D6, A7	Skt4/26-41
Signal Low 49-64	RP0/B1, D1, A2, C2, E2, B3, D3, A4, C4, E4, B5, D5, A6, C6, E6, B7	Skt4/1-16
Str-In4 High	RP0/E7	Skt4/43
Str-In4 Low	RP0/A8	Skt4/18
Str-Out4 High	RP0/D8	Skt4/45
Str-Out4 Low	RP0/E8	Skt4/20
Vext +24V		Skt4/25
Vext Gnd		Skt4/50

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