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Related Products

VTB 8303 Isolated Digital Output Transition Board (also available as 8353 - 160mm depth)

Features

VTB 8303



- VME64 extensions / Transition Board
- Full EMC shielding and insertion/extraction handles
- RP0 and RP2 connections
- Provides 64 opto-isolated output signals, four isolated output strobes and four isolated input strobes when connected to the VCB 8001 Carrier Board.
- Connector pins allocated for compatibility with the 8301.
- Four 50-way SCSI-2 sockets provide ease of connection to four groups of circuitry each with 16 outputs, input trigger and clock.

Product Description

The VTB 8303 is a 6U (double height) VME rear I/O transition board, which provides opto-isolated outputs from the 8001 Carrier Board. It routes the signals from the carrier board to four 50-way SCSI sockets via the J0 and J2 connectors of the VME backplane. The board includes sites for fitting DC-DC converters for powering the plant side of the opto-isolators.

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 transmits/receives all I/O signals and provides direct or conditioned connection provided by pcb jumper settings. The signals connect to the main carrier board according to the VME64x Greenspring pinout for IP module carriers.

SCSI Connectors

Connector 1 (lowest connector) Outputs 1-16, I/PStr1(+/-), O/PStr1(+/-)
Connector 2 Outputs 17-32, I/PStr2(+/-), O/PStr2(+/-)
Connector 3 Outputs 33-48, I/PStr3(+/-), O/PStr3(+/-)
Connector 4 (top connector) Outputs 49-64, I/PStr4(+/-), O/PStr4(+/-)

Isolated Digital Output 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	Skt1/47
Str-In1 Low	RP2/C23	Skt1/22
Str-Out1 High	RP2/A25	Skt1/44
Str-Out1 Low	RP2/C25	Skt1/19
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	Skt2/47
Str-In2 Low	RP2/D27	Skt2/22
Str-Out2 High	RP2/D29	Skt2/44
Str-Out2 Low	RP2/D30	Skt2/19
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	Skt3/47
Str-In3 Low	RP0/A18	Skt3/22
Str-Out3 High	RP0/D18	Skt3/44
Str-Out3 Low	RP0/E18	Skt3/19
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	Skt4/47
Str-In4 Low	RP0/A8	Skt4/22
Str-Out4 High	RP0/D8	Skt4/44
Str-Out4 Low	RP0/E8	Skt4/19
Vext +24V		Skt4/25
Vext Gnd		Skt4/50

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