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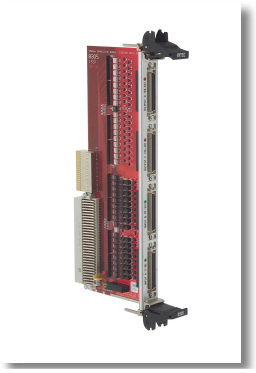
Related Products

8305 Isolated Digital Input/Output Transition Board

Features

- VME64 extensions / Transition Board
- Full EMC shielding and insertion/extraction handles
- RP0 and RP2 connections
- Provides 32 opto-isolated inputs and 32 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 inputs or outputs, input strobe and clock strobe.

VME 8305



Product Description

The VTB 8305 is a 6U (double height) VME rear I/O transition board, which provides opto-isolated inputs/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 isolated connection. The signals connect to the main carrier board according to the VME64x Greenspring pinout for IP module carriers.

SCSI Connectors

Connector 1 (lowest connector)	Inputs 1-16, I/PStr1(+/-), O/PStr1(+/-)
Connector 2	Inputs 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 Input/Output Connection Details

Signal Outputs	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 Outputs		

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 Inputs		
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 Inputs		
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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