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VTB 8205 Analogue Input/Output Transition Board

Product Description

VTB 8205


The VTB 8205 is a 6U (double height) VME rear I/O transition board, which provides connection to the 8002 Carrier Board. It routes the signals from the carrier board to three 50-way SCSI sockets via the J0 and J2 connectors of the VME backplane. The board includes sites for fitting resistors and capacitors associated with the lower 8 channels of each input/output. Optional on-board 5V to 12V DC-DC converters are connected to pins on the RP0/RP2 connectors to facilitate powering the plant side of isolated analogue circuits on IP boards which are mounted on the carrier board.

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 three 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

Socket 1 (lowest connector)	Outputs 1-16(+/-), Trigger 1(+/-), Clock1(+/-)
Socket 2	Outputs 17-32(+/-),Trigger 2(+/-), Clock2(+/-)
Socket 3 (top connector)	Inputs 33-40(+/-),Trigger3(+/-),Clock3(+/-) Outputs 41-48

Analogue 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
XTrig1 High	RP2/A23	Skt1/43
XTrig1 Low	RP2/C23	Skt1/18
XClk1 High	RP2/A25	Skt1/45
XClk1 Low	RP2/C25	Skt1/20
AGnd		Skt1/24, 25, 49, 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
XTrig2 High	RP2/Z27	Skt2/43
XTrig2 Low	RP2/D27	Skt2/18
XClk2 High	RP2/D29	Skt2/45
XClk2 Low	RP2/D30	Skt2/20
AGnd		Skt2/24, 25, 49, 50

Signal High 33-48	RP0/A11, C11, E11, B12, D12, A13, C13, E13, A1, C1, E1, B2, D2, A3, C3, E3,	Skt3/26-41
Signal Low 33-48	RP0/B11, D11, A12, C12, E12, B13, D13, A14, B1, D1, A2, C2, E2, B3, D3, A4	Skt3/1-16
XTrig3 High	RP0/E17	Skt3/43
XTrig3 Low	RP0/A18	Skt3/18
XClk3 High	RP0/D18	Skt3/45
XClk3 Low	RP0/E18	Skt3/20
AGnd		Skt3/24, 25, 49, 50

Resistor and Capacitor Network for Filtering

The 8205 provides direct or conditioned connection set by PCB jumper to all transmit/receive I/O signals



The 1K ohm resistors are matched to 0.01%, 1Meg ohms are ±1%.

No filtering components are fitted for IP sites A and B on delivered boards.

Jumpers J33 to J48 select conditioning for IP site C.

Jumpers J49 to J64 select conditioning for IP site D.

PCB Jumpers

- Link between 1 to 2 - filtering selected
- Link between 2 to 3 - no filtering, straight through connection.
- LK1 connects AGND1 to GND
- LK2 connects AGND2 to GND
- LK3 connects AGND3 to GND
- LK4 connects AGND4 to GND

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