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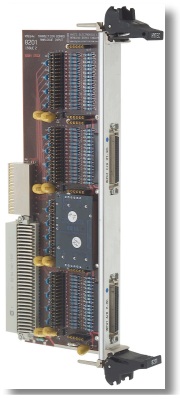
Related Products

VTB 8201 32-channel Analogue I/O Transition Board

Product Description

The VTB 8201 is a 6U (double height) VME rear I/O transition board, which provides connection to the 8002 Carrier Board. It optionally conditions and routes the signals from two 50-way SCSI sockets to the carrier board via the J0 and J2 connectors of the VME backplane. The board includes sites for fitting R-C low-pass filters.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.

VTB 8201



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 two high-density 50-way [SCSI2] connectors accepts 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)	I/Os 1-8(+/-), Trigger 1(+/-), Clock1(+/-)
	I/Os 9-16(+/-),Trigger 2(+/-), Clock2(+/-)
Connector 3	I/Os 17-24(+/-),Trigger3(+/-),Clock3(+/-)
(top connector)	I/Os 25-32(+/-),Trigger4(+/-),Clock4(+/-)

Connection Details

Signal	VME Connection	SCSI Connection
Signal High 1-8	RP2/A6-A13	Skt1/26-33
Signal Low 1-8	RP2/C6-C13	Skt1/1-8
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		Skt1/24,49
Signal High 9-16	RP2/D4,D5,Z7,D8D9,Z11,D12,D13	Skt1/34-41
Signal Low 9-16	RP2/D5,D6,D7,Z8D10,D11,Z13,D14	Skt1/9-16
XTrig2 High	RP2/Z27	Skt1/44
XTrig2 Low	RP2/D27	Skt1/19
XClk2 High	RP2/D29	Skt1/40
XClk2 Low	RP2/D30	Skt1/21
AGnd		Skt1/25,50

Signal High 17-24	RP0/A11,C11,E11B12,D12,A13,C13E13	Skt3/26-33
Signal Low 17-24	RP0/B11,D11,A12,C12,E12B13D13A14	Skt3/1-8
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		Skt3/24,49
Signal High 25-32	RP0/A1,C1,E1,B2,D2,A3,C3,E3	Skt3/34-41
Signal Low 25-32	RP0/B1,D1,A2,C2E2,B3,D3,A4	Skt3/9-16
XTrig4 High	RP0/E7	Skt3/44
XTrig4 Low	RP0/A8	Skt3/19
XClk4 High	RP0/D8	Skt3/40
XClk4 Low	RP0/E8	Skt3/21
AGnd		Skt3/25,50

Resistor and Capacitor Network for Filtering

The 8201 provides direct or conditioned connection set by PCB jumper to all input signals. An alternative jumper settings disables the filter for analogue output.

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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