P1

Pin	Signal	Pin	Signal	Pin	Signal
A1	System_5V	B1	System_5V	C1	System_5V
A2		B2		C2	
A3	System_Gnd	B3	System_Gnd	C3	System_Gnd
A4		B4		C4	
A5	Spare_4	B5	P_Bitmask_4B	C5	P_Bitmask_3B
A6	Spare_3	B6	P_Bitmask_4A	C6	P_Bitmask_3A
A7	Spare_2	B7	N_Bitmask_4B	C7	N_Bitmask_3B
A8	Spare_1	B8	N_Bitmask_4A	C8	N_Bitmask_3A
A9	N_Data_4Bn	B9	P_Data_4Bn	C9	P_Bitmask_2B
A10	N_Data_4Bp	B10	P_Data_4Bp	C10	P_Bitmask_2A
A11	N_Data_4An	B11	P_Data_4An	C11	N_Bitmask_2B
A12	N_Data_4Ap	B12	P_Data_4Ap	C12	N_Bitmask_2A
A13	N_Cmd_4n	B13	P_Cmd_4n	C13	P_Bitmask_1B
A14	N_Cmd_4p	B14	P_Cmd_4p	C14	P_Bitmask_1A
A15	N_Clk_4n	B15	P_Clk_4n	C15	N_Bitmask_1B
A16	N_Clk_4p	B16	P_Clk_4p	C16	N_Bitmask_1A
A17	P_Data_1Bn	B17	P_Data_2Bn	C17	P_Data_3Bn
A18	P_Data_1Bp	B18	P_Data_2Bp	C18	P_Data_3Bp
A19	P_Data_1An	B19	P_Data_2An	C19	P_Data_3An
A20	P_Data_1Ap	B20	P_Data_2Ap	C20	P_Data_3Ap
A21	P_Cmd_1n	B21	P_Cmd_2n	C21	P_Cmd_3n
A22	P_Cmd_1p	B22	P_Cmd_2p	C22	P_Cmd_3p
A23	P_Clk_1n	B23	P_Clk_2n	C23	P_Clk_3n
A24	P_Clk_1p	B24	P_Clk_2p	C24	P_Clk_3p
A25	N_Data_1Bn	B25	N_Data_2Bn	C25	N_Data_3Bn
A26	N_Data_1Bp	B26	N_Data_2Bp	C26	N_Data_3Bp
A27	N_Data_1An	B27	N_Data_2An	C27	N_Data_3An
A28	N_Data_1Ap	B28	N_Data_2Ap	C28	N_Data_3Ap
A29	N_Cmd_1n	B29	N_Cmd_2n	C29	N_Cmd_3n
A30	N_Cmd_1p	B30	N_Cmd_2p	C30	N_Cmd_3p
A31	N_Clk_1n	B31	N_Clk_2n	C31	N_Clk_3n
A32	N_Clk_1p	B32	N_Clk_2p	C32	N_Clk_3p

DIN_96F 96-pin female VME connector.
This connector passes signals to and from the DAQ Link Card, and connects to custom midplane which destributes system power (System_5V, System_Gnd).

P2

Pin	Signal	Pin	Signal	Pin	Signal
A1	Temp_1_1_Out	B1		C1	
A2	Temp_2_1_Out	B2		C2	
A3	Temp_1_2_Out	B3		C3	
A4	Temp_2_2_Out	B4		C4	
A5	Temp_1_3	B5		C5	
A6	Temp_2_3	B6		C6	
A7	Temp_1_4	B7		C7	
A8	Temp_2_4	B8		C8	
A9		B9		C9	
A10		B10		C10	
A11		B11		C11	
A12		B12		C12	
A13		B13		C13	
A14		B14		C14	
A15		B15		C15	
A16		B16		C16	
A17		B17		C17	
A18		B18		C18	
A19		B19		C19	
A20		B20		C20	
A21		B21		C21	
A22		B22		C22	
A23		B23		C23	
A24		B24		C24	
A25		B25		C25	
A26		B26		C26	
A27		B27		C27	
A28		B28		C28	
A29	System_5V	B29	System_5V	C29	System_5V
A30		B30		C30	
A31	System_Gnd	B31	System_Gnd	C31	System_Gnd
A32		B32		C32	

DIN_96F 96-pin female VME connector.

This connector passes temperature information from each HDI module to a custom midplane. The midplane maps the first eight pins of P2 in each slot to a unique set of pins in the last slot of the crate, where a temperature sensor board resides.

P3

Signal	Pin	Signal	Pin	Signal	Pin
HDI_1_N_Data_Ap	19	HDI_1_N_Clk_An	10	HDI_1_N_Clk_Ap	1
HDI_1_N_Data_An	20	HDI_1_N_Clk_Bn	11	HDI_1_N_Clk_Bp	2
HDI_1_N_Data_Bp	21	HDI_1_N_Cmd_An	12	HDI_1_N_Cmd_Ap	3
HDI_1_N_Data_Bn	22	HDI_1_N_Cmd_Bn	13	HDI_1_N_Cmd_Bp	4
HDI_1_P_Data_Ap	23	HDI_1_P_Clk_An	14	HDI_1_P_Clk_Ap	5
HDI_1_P_Data_An	24	HDI_1_P_Clk_Bn	15	HDI_1_P_Clk_Bp	6
HDI_1_P_Data_Bp	25	HDI_1_P_Cmd_An	16	HDI_1_P_Cmd_Ap	7
HDI_1_P_Data_Bn	26	HDI_1_P_Cmd_Bn	17	HDI_1_P_Cmd_Bp	8
		Shield	18	Shield	9

HD-22-26

26-pin Signal Cable Connector
to Matching Card signal connector
HDI Module #1

P4

Signal	Pin	Signal	Pin	Signal	Pin
HDI_2_N_Data_Ap	19	HDI_2_N_Clk_An	10	HDI_2_N_Clk_Ap	1
HDI_2_N_Data_An	20	HDI_2_N_Clk_Bn	11	HDI_2_N_Clk_Bp	2
HDI_2_N_Data_Bp	21	HDI_2_N_Cmd_An	12	HDI_2_N_Cmd_Ap	3
HDI_2_N_Data_Bn	22	HDI_2_N_Cmd_Bn	13	HDI_2_N_Cmd_Bp	4
HDI_2_P_Data_Ap	23	HDI_2_P_Clk_An	14	HDI_2_P_Clk_Ap	5
HDI_2_P_Data_An	24	HDI_2_P_Clk_Bn	15	HDI_2_P_Clk_Bp	6
HDI_2_P_Data_Bp	25	HDI_2_P_Cmd_An	16	HDI_2_P_Cmd_Ap	7
HDI_2_P_Data_Bn	26	HDI_2_P_Cmd_Bn	17	HDI_2_P_Cmd_Bp	8
		Shield	18	Shield	9

HD-22-26

26-pin Signal Cable Connector
to Matching Card signal connector
HDI Module #2

HDILnk16 version valid 3/23/97

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Prototype HDI Link Card
Signal Circuitry
HDILnk16.2.sch

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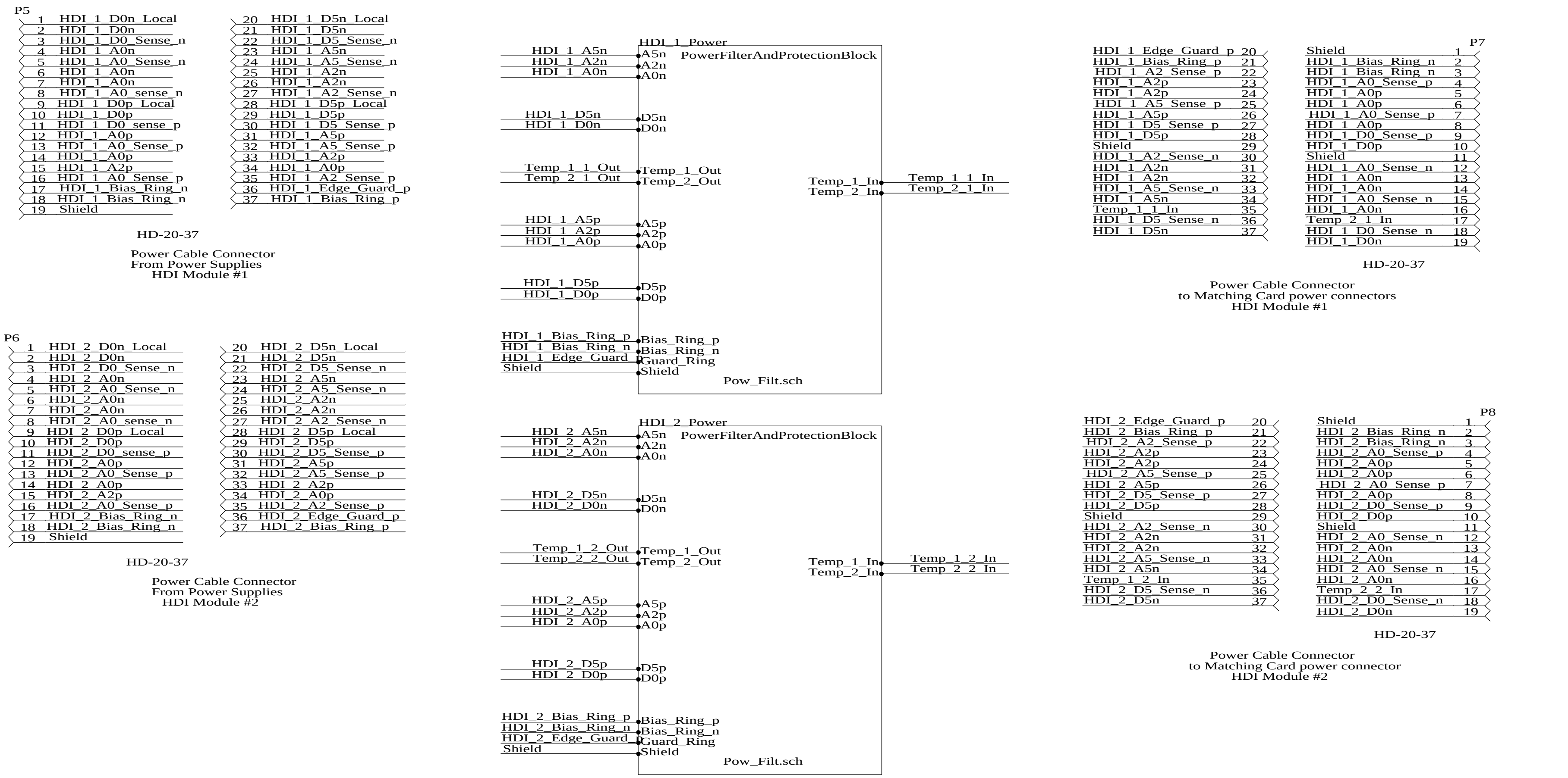

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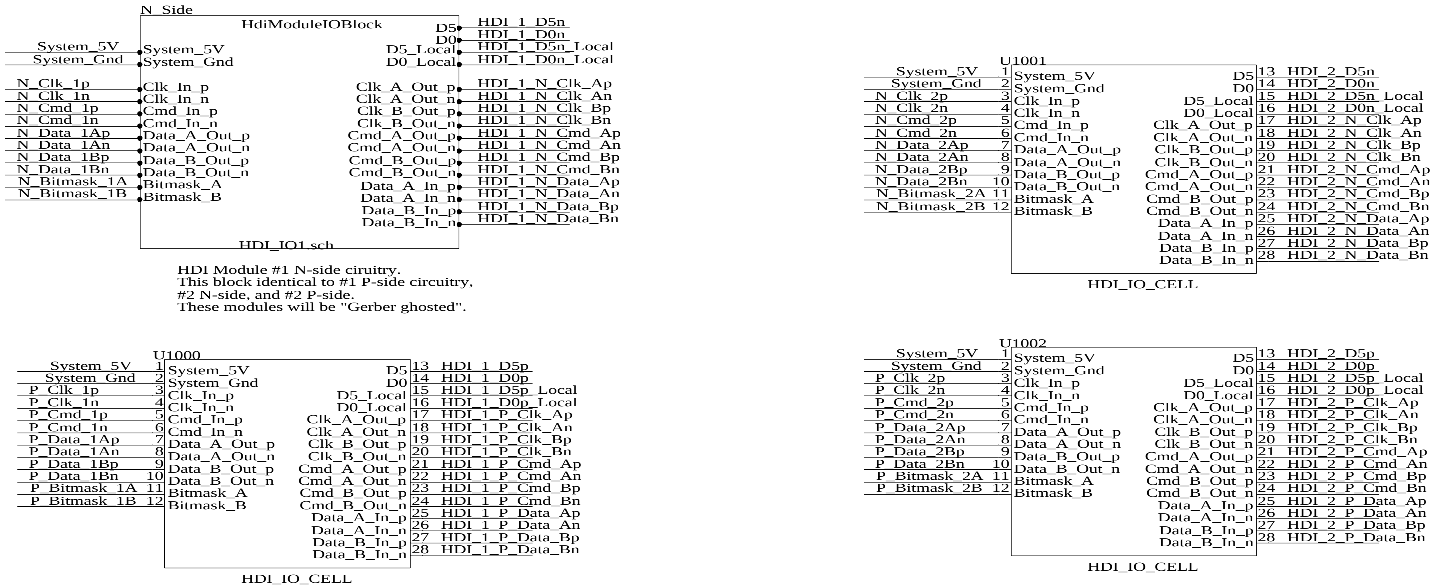

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