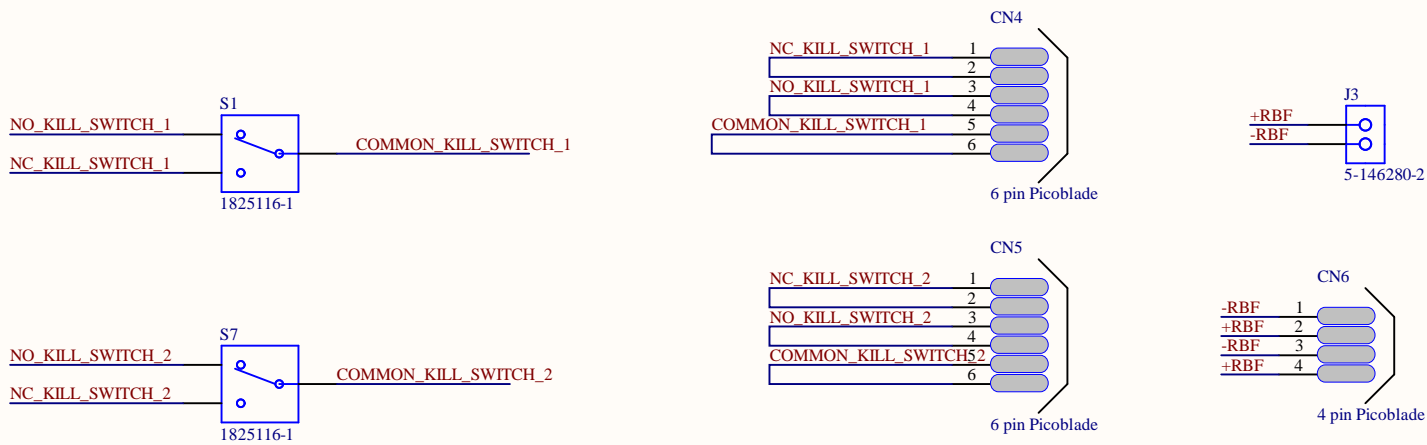
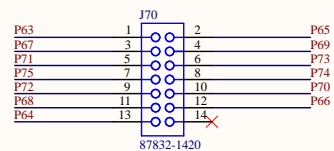
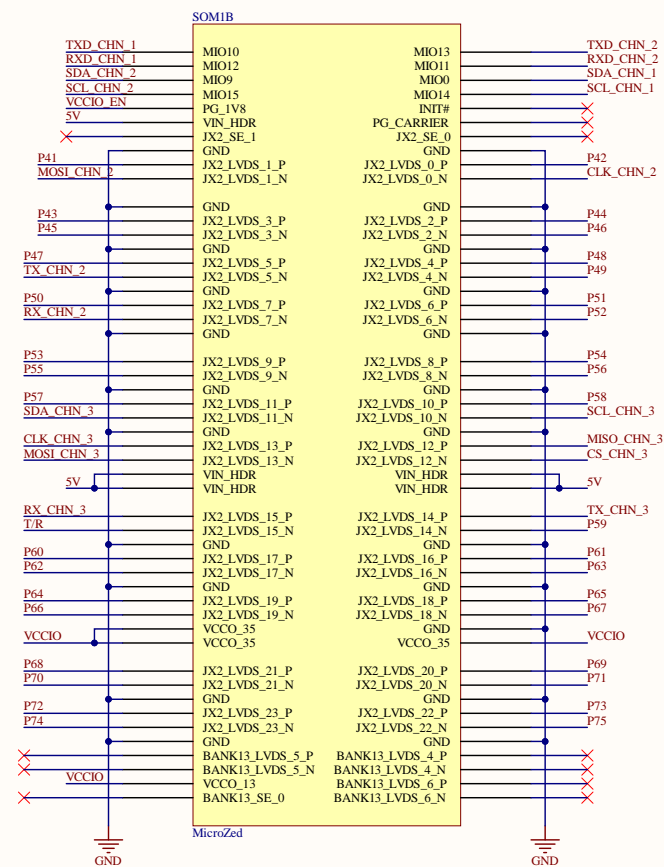
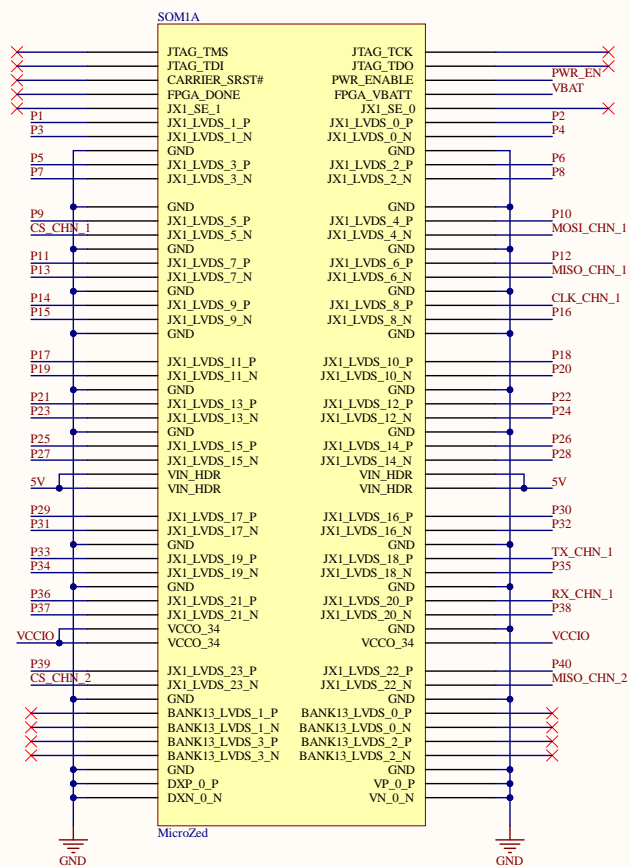


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A4		
Date:	3/24/2021	Sheet of
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RBF	Switch(NC)	Switch(NO)	MOSFET	EPS POWER
1	X	X	OPEN	Cut-off
0	1	0	CLOSE	ON
0	0	1	OPEN	Cut-off (launch moment)

Title			
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A4			
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File:	C:\Users\...\kill-switches_schematic.SchDoc		Drawn By:



Title		
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[illegible]

CNS1A				CNS1B			
HD-N	HD-1	HD-2	HD-3	HD-1	HD-2	HD-3	HD-4
HD-4	HD-5	HD-6	HD-7	HD-4	HD-5	HD-6	HD-7
HD-8	HD-9	HD-10	HD-11	HD-8	HD-9	HD-10	HD-11
HD-12	HD-13	HD-14	HD-15	HD-12	HD-13	HD-14	HD-15
HD-16	HD-17	HD-18	HD-19	HD-16	HD-17	HD-18	HD-19
HD-20	HD-21	HD-22	HD-23	HD-20	HD-21	HD-22	HD-23
HD-24	HD-25	HD-26	HD-27	HD-24	HD-25	HD-26	HD-27
PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND
PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND	PC104-GND
HD-28	HD-29	HD-30	HD-31	HD-28	HD-29	HD-30	HD-31
HD-32	HD-33	HD-34	HD-35	HD-32	HD-33	HD-34	HD-35
HD-36	HD-37	HD-38	HD-39	HD-36	HD-37	HD-38	HD-39
HD-40	HD-41	HD-42	HD-43	HD-40	HD-41	HD-42	HD-43
HD-44	HD-45	HD-46	HD-47	HD-44	HD-45	HD-46	HD-47
HD-48	HD-49	HD-50	HD-51	HD-48	HD-49	HD-50	HD-51
HD-52	HD-53	HD-54	HD-55	HD-52	HD-53	HD-54	HD-55

Header Pin	D-sub Pin
H1	D1
H2	D2
H3	D3
H4	D4
H5	D5
H6	D6
H7	D7
H8	D8
H9	D9
H10	D10
H11	D11
H12	D12
H13	D13
H14	D14
H15	D15
H16	D16
H17	D17
H18	D18
H19	D19
H20	D20
H21	D21
H22	D22
H23	D23
H24	D24
H25	D25
H26	D26

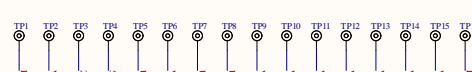
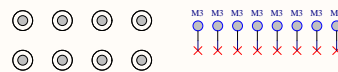
CAN CTRN 1 N		CAN CTRN 1 P		CAN CTRN 2 N		CAN CTRN 2 P	
HI-1	HI-1	HI-2	HI-2	HI-1	HI-1	HI-2	HI-2
HI-3	HI-3	HI-4	HI-4	HI-3	HI-3	HI-4	HI-4
HI-5	HI-5	HI-6	HI-6	HI-5	HI-5	HI-6	HI-6
HI-7	HI-7	HI-8	HI-8	HI-7	HI-7	HI-8	HI-8
HI-9	HI-9	HI-10	HI-10	HI-9	HI-9	HI-10	HI-10
HI-11	HI-11	HI-12	HI-12	HI-11	HI-11	HI-12	HI-12
HI-13	HI-13	HI-14	HI-14	HI-13	HI-13	HI-14	HI-14
HI-15	HI-15	HI-16	HI-16	HI-15	HI-15	HI-16	HI-16
HI-17	HI-17	HI-18	HI-18	HI-17	HI-17	HI-18	HI-18
HI-19	HI-19	HI-20	HI-20	HI-19	HI-19	HI-20	HI-20
HI-21	HI-21	HI-22	HI-22	HI-21	HI-21	HI-22	HI-22
HI-23	HI-23	HI-24	HI-24	HI-23	HI-23	HI-24	HI-24
HI-25	HI-25	HI-26	HI-26	HI-25	HI-25	HI-26	HI-26
HI-27	HI-27	HI-28	HI-28	HI-27	HI-27	HI-28	HI-28
PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND
PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND	PC104 GND
HI-29	HI-29	HI-30	HI-30	HI-29	HI-29	HI-30	HI-30
HI-31	HI-31	HI-32	HI-32	HI-31	HI-31	HI-32	HI-32
HI-33	HI-33	HI-34	HI-34	HI-33	HI-33	HI-34	HI-34
HI-35	HI-35	HI-36	HI-36	HI-35	HI-35	HI-36	HI-36
HI-37	HI-37	HI-38	HI-38	HI-37	HI-37	HI-38	HI-38
HI-39	HI-39	HI-40	HI-40	HI-39	HI-39	HI-40	HI-40
HI-41	HI-41	HI-42	HI-42	HI-41	HI-41	HI-42	HI-42
HI-43	HI-43	HI-44	HI-44	HI-43	HI-43	HI-44	HI-44
HI-45	HI-45	HI-46	HI-46	HI-45	HI-45	HI-46	HI-46
HI-47	HI-47	HI-48	HI-48	HI-47	HI-47	HI-48	HI-48
HI-49	HI-49	HI-50	HI-50	HI-49	HI-49	HI-50	HI-50
HI-51	HI-51	HI-52	HI-52	HI-51	HI-51	HI-52	HI-52

[illegible]

Figure 1-10 shows the pin connections for the PC104 module. The diagram is divided into two main sections: PC104 and PC104_GND. Each section has a table of pin numbers and their corresponding functions. The PC104 section has 50 pins, and the PC104_GND section has 50 pins. The connections are as follows:

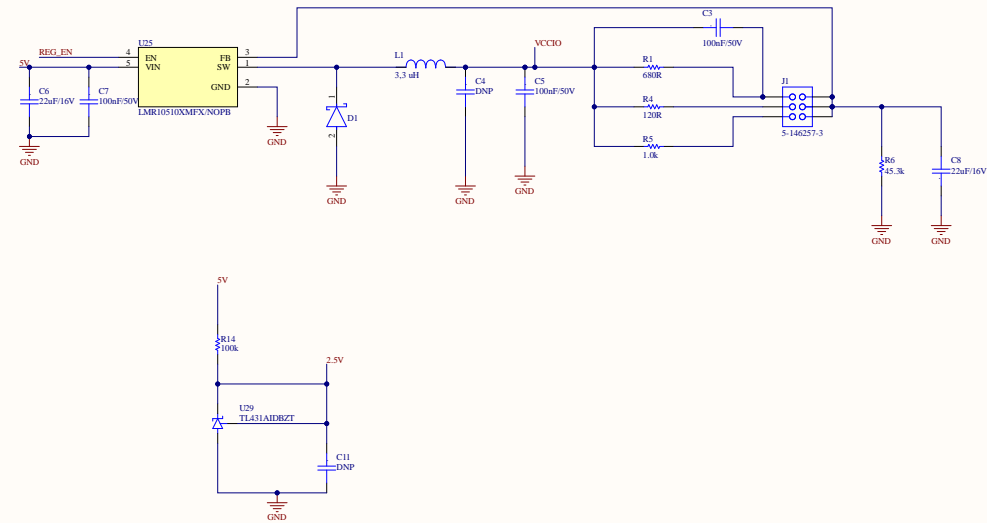
PC104	PC104_GND
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50

The diagram also includes a legend for the pin connections, showing a blue circle for the module hole and a red circle for the ground connection. The legend indicates that the module hole is connected to the ground connection.

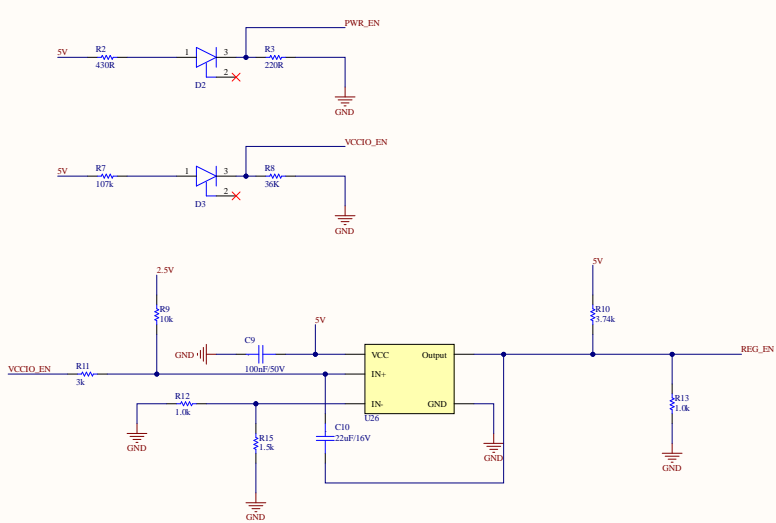


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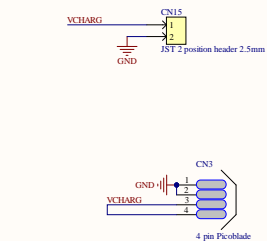
Reference signals



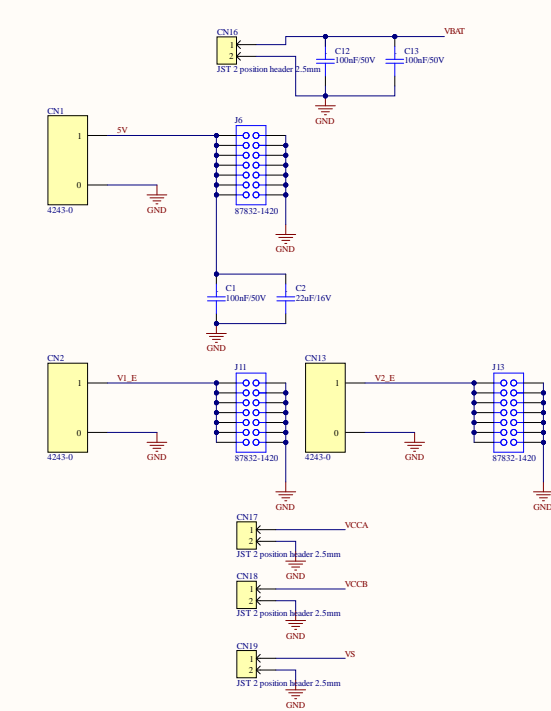
Enables



Batteries charge circuit

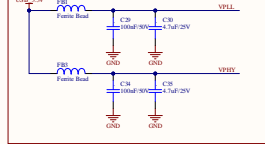


External voltage sources

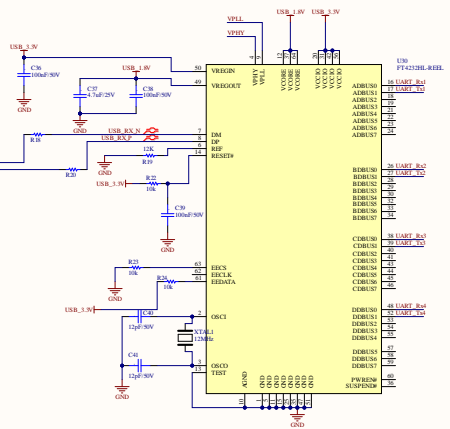
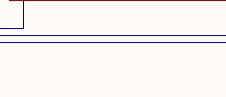
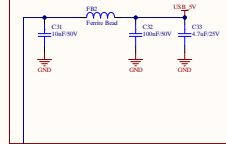


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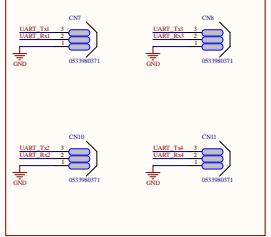
Low pass LC filters for VPLL and VPHY



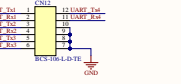
USB VBUS Filter



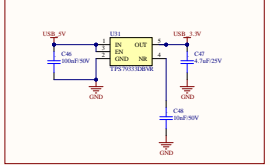
Debug interfaces



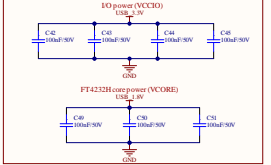
Redundant pin header



Voltage Regulator



Decoupling capacitors



Title		
Rev	Number	Revision
A1		
Date: 2024-01-10		
Drawn by: USB_altera_schematic_1.0.0		

The figure shows seven different pin connection configurations for the FPS module. Each configuration is a schematic diagram showing the FPS module (a yellow box) with its pins (VS, GND, AC1, AC2, AC3, AC4, AC5, AC6, AC7, AC8, AC9, AC10, AC11, AC12, AC13, AC14, AC15, AC16, AC17, AC18, AC19, AC20, AC21, AC22, AC23, AC24, AC25, AC26, AC27, AC28, AC29, AC30, AC31, AC32, AC33, AC34, AC35, AC36, AC37, AC38, AC39, AC40, AC41, AC42, AC43, AC44, AC45, AC46, AC47, AC48, AC49, AC50, AC51, AC52, AC53, AC54, AC55, AC56, AC57, AC58, AC59, AC60, AC61, AC62, AC63, AC64, AC65, AC66, AC67, AC68, AC69, AC70, AC71, AC72, AC73, AC74, AC75, AC76, AC77, AC78, AC79, AC80, AC81, AC82, AC83, AC84, AC85, AC86, AC87, AC88, AC89, AC90, AC91, AC92, AC93, AC94, AC95, AC96, AC97, AC98, AC99, AC100) connected to the FPS module pins (VS, GND, AC1, AC2, AC3, AC4, AC5, AC6, AC7, AC8, AC9, AC10, AC11, AC12, AC13, AC14, AC15, AC16, AC17, AC18, AC19, AC20, AC21, AC22, AC23, AC24, AC25, AC26, AC27, AC28, AC29, AC30, AC31, AC32, AC33, AC34, AC35, AC36, AC37, AC38, AC39, AC40, AC41, AC42, AC43, AC44, AC45, AC46, AC47, AC48, AC49, AC50, AC51, AC52, AC53, AC54, AC55, AC56, AC57, AC58, AC59, AC60, AC61, AC62, AC63, AC64, AC65, AC66, AC67, AC68, AC69, AC70, AC71, AC72, AC73, AC74, AC75, AC76, AC77, AC78, AC79, AC80, AC81, AC82, AC83, AC84, AC85, AC86, AC87, AC88, AC89, AC90, AC91, AC92, AC93, AC94, AC95, AC96, AC97, AC98, AC99, AC100). The diagrams are labeled: 1. FPS module power connection, 2. FPS module power connection, 3. FPS module power connection, 4. FPS module power connection, 5. FPS module power connection, 6. FPS module power connection, 7. FPS module power connection.

Figure 10 shows the pin connections for the TMS320C6743. The diagram is divided into two main sections, J1 and J2, representing different pin headers. J1 (TX1) includes pins for VCCA, VCCB, SDA_CRS_1, SCL_CRS_1, TXD_CRS_1, TXD_CRS_2, TXD_CRS_3, TXD_CRS_4, TXD_CRS_5, TXD_CRS_6, TXD_CRS_7, TXD_CRS_8, TXD_CRS_9, TXD_CRS_10, TXD_CRS_11, TXD_CRS_12, TXD_CRS_13, TXD_CRS_14, TXD_CRS_15, TXD_CRS_16, TXD_CRS_17, TXD_CRS_18, TXD_CRS_19, TXD_CRS_20, TXD_CRS_21, TXD_CRS_22, TXD_CRS_23, TXD_CRS_24, TXD_CRS_25, TXD_CRS_26, TXD_CRS_27, TXD_CRS_28, TXD_CRS_29, TXD_CRS_30, TXD_CRS_31, TXD_CRS_32, TXD_CRS_33, TXD_CRS_34, TXD_CRS_35, TXD_CRS_36, TXD_CRS_37, TXD_CRS_38, TXD_CRS_39, TXD_CRS_40, TXD_CRS_41, TXD_CRS_42, TXD_CRS_43, TXD_CRS_44, TXD_CRS_45, TXD_CRS_46, TXD_CRS_47, TXD_CRS_48, TXD_CRS_49, TXD_CRS_50, TXD_CRS_51, TXD_CRS_52, TXD_CRS_53, TXD_CRS_54, TXD_CRS_55, TXD_CRS_56, TXD_CRS_57, TXD_CRS_58, TXD_CRS_59, TXD_CRS_60, TXD_CRS_61, TXD_CRS_62, TXD_CRS_63, TXD_CRS_64, TXD_CRS_65, TXD_CRS_66, TXD_CRS_67, TXD_CRS_68, TXD_CRS_69, TXD_CRS_70, TXD_CRS_71, TXD_CRS_72, TXD_CRS_73, TXD_CRS_74, TXD_CRS_75, TXD_CRS_76, TXD_CRS_77, TXD_CRS_78, TXD_CRS_79, TXD_CRS_80, TXD_CRS_81, TXD_CRS_82, TXD_CRS_83, TXD_CRS_84, TXD_CRS_85, TXD_CRS_86, TXD_CRS_87, TXD_CRS_88, TXD_CRS_89, TXD_CRS_90, TXD_CRS_91, TXD_CRS_92, TXD_CRS_93, TXD_CRS_94, TXD_CRS_95, TXD_CRS_96, TXD_CRS_97, TXD_CRS_98, TXD_CRS_99, TXD_CRS_100. J2 (TX2) includes pins for VCCA, VCCB, SDA_CRS_2, SCL_CRS_2, TXD_CRS_2, TXD_CRS_3, TXD_CRS_4, TXD_CRS_5, TXD_CRS_6, TXD_CRS_7, TXD_CRS_8, TXD_CRS_9, TXD_CRS_10, TXD_CRS_11, TXD_CRS_12, TXD_CRS_13, TXD_CRS_14, TXD_CRS_15, TXD_CRS_16, TXD_CRS_17, TXD_CRS_18, TXD_CRS_19, TXD_CRS_20, TXD_CRS_21, TXD_CRS_22, TXD_CRS_23, TXD_CRS_24, TXD_CRS_25, TXD_CRS_26, TXD_CRS_27, TXD_CRS_28, TXD_CRS_29, TXD_CRS_30, TXD_CRS_31, TXD_CRS_32, TXD_CRS_33, TXD_CRS_34, TXD_CRS_35, TXD_CRS_36, TXD_CRS_37, TXD_CRS_38, TXD_CRS_39, TXD_CRS_40, TXD_CRS_41, TXD_CRS_42, TXD_CRS_43, TXD_CRS_44, TXD_CRS_45, TXD_CRS_46, TXD_CRS_47, TXD_CRS_48, TXD_CRS_49, TXD_CRS_50, TXD_CRS_51, TXD_CRS_52, TXD_CRS_53, TXD_CRS_54, TXD_CRS_55, TXD_CRS_56, TXD_CRS_57, TXD_CRS_58, TXD_CRS_59, TXD_CRS_60, TXD_CRS_61, TXD_CRS_62, TXD_CRS_63, TXD_CRS_64, TXD_CRS_65, TXD_CRS_66, TXD_CRS_67, TXD_CRS_68, TXD_CRS_69, TXD_CRS_70, TXD_CRS_71, TXD_CRS_72, TXD_CRS_73, TXD_CRS_74, TXD_CRS_75, TXD_CRS_76, TXD_CRS_77, TXD_CRS_78, TXD_CRS_79, TXD_CRS_80, TXD_CRS_81, TXD_CRS_82, TXD_CRS_83, TXD_CRS_84, TXD_CRS_85, TXD_CRS_86, TXD_CRS_87, TXD_CRS_88, TXD_CRS_89, TXD_CRS_90, TXD_CRS_91, TXD_CRS_92, TXD_CRS_93, TXD_CRS_94, TXD_CRS_95, TXD_CRS_96, TXD_CRS_97, TXD_CRS_98, TXD_CRS_99, TXD_CRS_100. The diagram also shows connections to a microcontroller (MCP23017) and a PC104 connector.

P1

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

P2

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

P3

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

P4

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

P5

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

P6

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

P7

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

P8

Pin	Function	Pin	Function
P1	A1	P2	VCCA
P2	A2	P3	VCCB
P3	A3	P4	VCCA
P4	A4	P5	VCCB

Title		
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