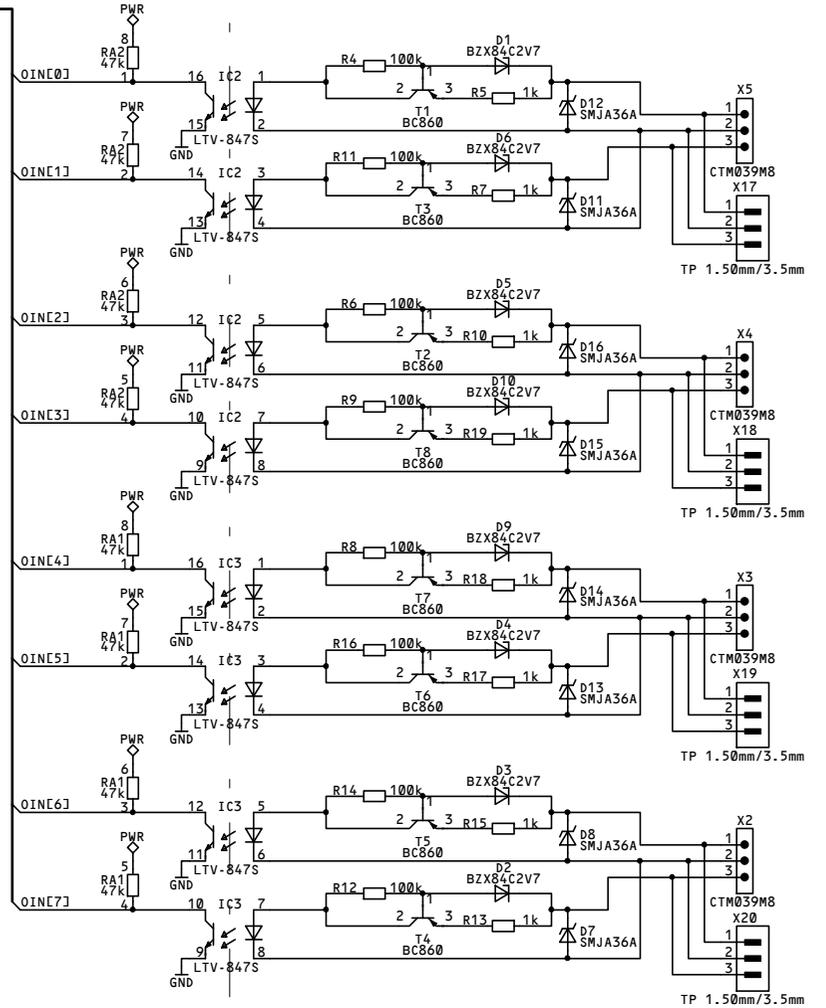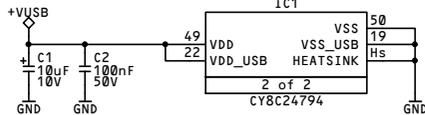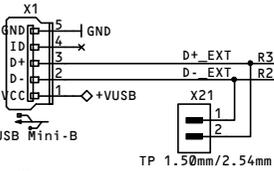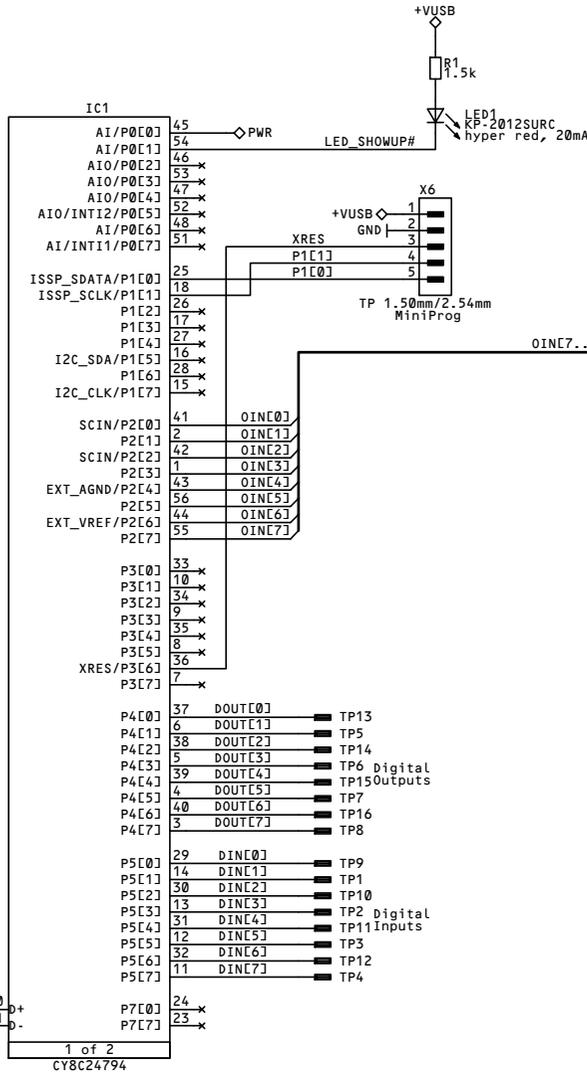MECH1 CTF03008 3 Pin Terminal Block 3.50mm screwable Female
MECH2 CTF03008 3 Pin Terminal Block 3.50mm screwable Female
MECH3 CTF03008 3 Pin Terminal Block 3.50mm screwable Female
MECH4 CTF03008 3 Pin Terminal Block 3.50mm screwable Female

+VUSB
R1 1.5k
LED1 KP-2012SURC hyper red, 20mA
LED_SHOWUP#

X6 MiniProg
+VUSB 1
GND 2
XRES 3
P1[1] 4
P1[0] 5
TP 1.50mm/2.54mm

OIN[7..0]

IC1 CY8C24794 (1 of 2)

Pin	Signal
45	AI/P0[0] → PWR
54	AI/P0[1]
46	AIO/P0[2]
53	AIO/P0[3]
47	AIO/P0[4]
52	AIO/INTI2/P0[5]
48	AI/P0[6]
51	AI/INTI1/P0[7]
25	ISSP_SDATA/P1[0]
18	ISSP_SCLK/P1[1]
26	P1[2]
17	P1[3]
27	P1[4]
16	I2C_SDA/P1[5]
28	P1[6]
15	I2C_CLK/P1[7]
41	SCIN/P2[0] OIN[0]
2	P2[1] OIN[1]
42	SCIN/P2[2] OIN[2]
1	P2[3] OIN[3]
43	EXT_AGND/P2[4] OIN[4]
56	P2[5] OIN[5]
44	EXT_VREF/P2[6] OIN[6]
55	P2[7] OIN[7]
33	P3[0]
10	P3[1]
34	P3[2]
9	P3[3]
35	P3[4]
8	P3[5]
36	XRES/P3[6]
7	P3[7]
37	P4[0] DOUT[0] TP13
6	P4[1] DOUT[1] TP5
38	P4[2] DOUT[2] TP14
5	P4[3] DOUT[3] TP6
39	P4[4] DOUT[4] TP15
4	P4[5] DOUT[5] TP7
40	P4[6] DOUT[6] TP16
3	P4[7] DOUT[7] TP8
29	P5[0] DIN[0] TP9
14	P5[1] DIN[1] TP1
30	P5[2] DIN[2] TP10
13	P5[3] DIN[3] TP2
31	P5[4] DIN[4] TP11
12	P5[5] DIN[5] TP3
32	P5[6] DIN[6] TP12
11	P5[7] DIN[7] TP4
20	D+
21	D-
24	P7[0]
23	P7[7]

Digital Outputs
Digital Inputs

X1 USB Mini-B
5 GND GND
4 ID
3 D+ D+_EXT
2 D- D-_EXT
1 VCC +VUSB

R3 22R D+ 20
R2 22R D- 21

X21
1
2
TP 1.50mm/2.54mm

X1 USB Mini-B
SH1
SH2
SH3
SH4
GND

+VUSB
C1 10uF 10V
C2 100nF 50V

IC1 CY8C24794 (2 of 2)
49 VDD   VSS 50
22 VDD_USB VSS_USB 19
        HEATSINK Hs

GND

PWR / RA2 47k / OIN[0] / IC2 / LTV-847S / R4 100k / T1 BC860 / R5 1k / D1 BZX84C2V7 / D12 SMJA36A
OIN[1] / R11 100k / T3 BC860 / R7 1k / D6 BZX84C2V7 / D11 SMJA36A
X5 CTM039M8 / X17 / TP 1.50mm/3.5mm

OIN[2] / RA2 47k / IC2 / R6 100k / T2 BC860 / R10 1k / D5 BZX84C2V7 / D16 SMJA36A
OIN[3] / R9 100k / T8 BC860 / R19 1k / D10 BZX84C2V7 / D15 SMJA36A
X4 CTM039M8 / X18 / TP 1.50mm/3.5mm

OIN[4] / RA1 47k / IC3 / R8 100k / T7 BC860 / R18 1k / D9 BZX84C2V7 / D14 SMJA36A
OIN[5] / R16 100k / T6 BC860 / R17 1k / D4 BZX84C2V7 / D13 SMJA36A
X3 CTM039M8 / X19 / TP 1.50mm/3.5mm

OIN[6] / RA1 47k / IC3 / R14 100k / T5 BC860 / R15 1k / D3 BZX84C2V7 / D8 SMJA36A
OIN[7] / R12 100k / T4 BC860 / R13 1k / D2 BZX84C2V7 / D7 SMJA36A
X2 CTM039M8 / X20 / TP 1.50mm/3.5mm