

Pufferfish Interface Schematic

Sheet: Connections

File: Connections.sch

Sheet: LEDsAlarm

File: LEDsAlarm.sch

Sheet: Switches

File: Switches.sch

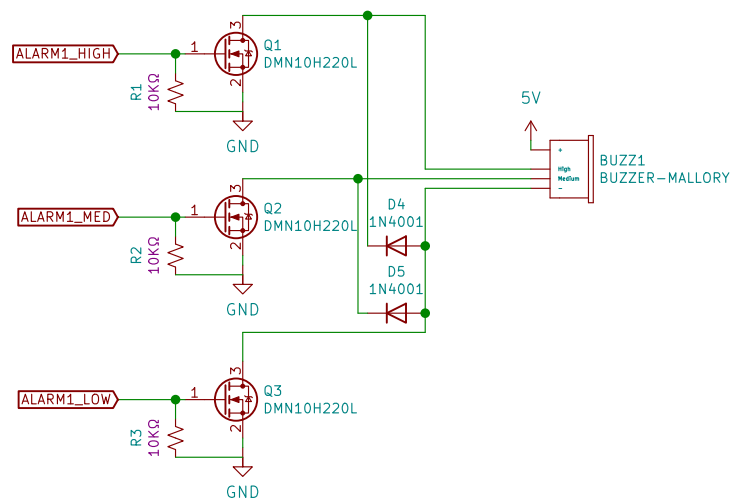
Note: External memory moved to Controller



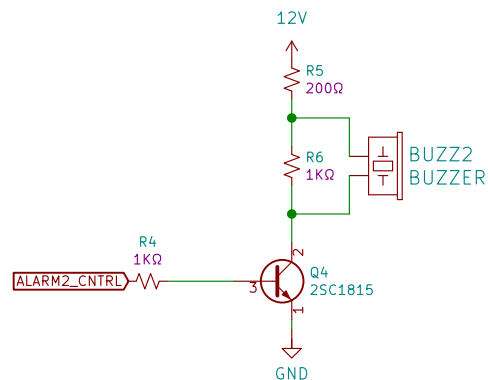
Sheet: /		
File: Pufferfish-Interface-1.sch		
Title: Pufferfish Interface Board		
Size: A4	Date: 2020-06-11	Rev: 1
KiCad E.D.A. kicad (5.1.6-0-10_14)		Id: 1/4

Alarms

Regulatory Medical Alarm

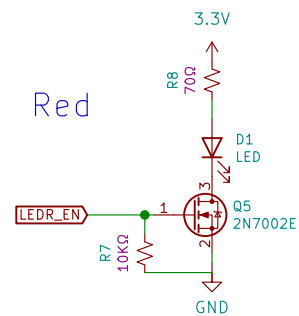


System Non-Regulatory PWM Alarm

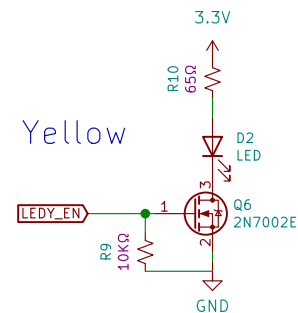


LEDs

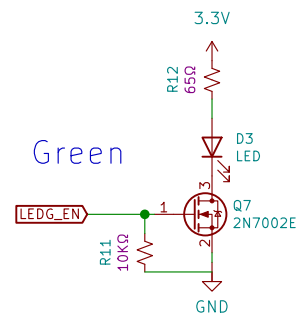
Red



Yellow



Green



Sheet: /LEDsAlarm/
File: LEDsAlarm.sch

Title: LEDs and Alarm

Size: A4 Date: 2020-06-11
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Rev: 1
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Diagram illustrating the connection of a control board to a main board via a 16-pin header (CONN1).

The main board provides power and ground connections:

- 5V (Pin 1)
- 12V (Pin 2)
- 3.3V (Pin 3)
- GND (Pin 4)

The control board provides the following signals:

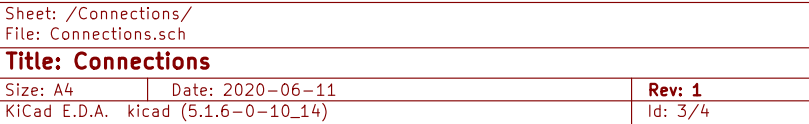
- ALARM2_CNTRL (Pin 5)
- LEDR_EN (Pin 7)
- LEDY_EN (Pin 9)
- LEDG_EN (Pin 11)
- SET_PWR_SRC (Pin 13)
- SET_PWR_ON_OFF (Pin 15)
- ALARM1_LOW (Pin 8)
- ALARM1_MED (Pin 10)
- ALARM1_HIGH (Pin 12)
- SET_ALARM_EN (Pin 14)
- SET_NOT_PAUSE (Pin 16)

Connections to other components:

- CN10_31 PB0
- CN8_6 PC10
- CN8_10 PC12
- CN8_8 PC11
- CN10_15 PB2
- CN10_25 PE2
- CN7_5 PB13
- CN10_28
- CN10_2 PF13
- CN8_14 PG2
- CN8_16 PG3

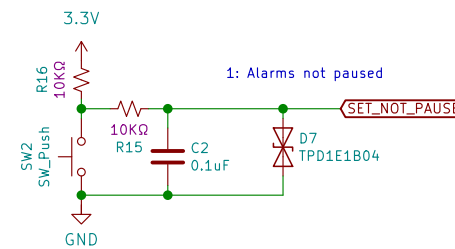
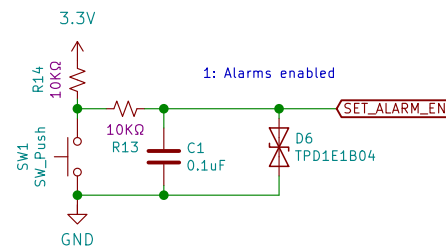
Header Pinout:

Pin	Signal
1	5V
2	12V
3	3.3V
4	GND
5	ALARM2_CNTRL
6	
7	LEDR_EN
8	ALARM1_LOW
9	LEDY_EN
10	ALARM1_MED
11	LEDG_EN
12	ALARM1_HIGH
13	SET_PWR_SRC
14	SET_ALARM_EN
15	SET_PWR_ON_OFF
16	SET_NOT_PAUSE

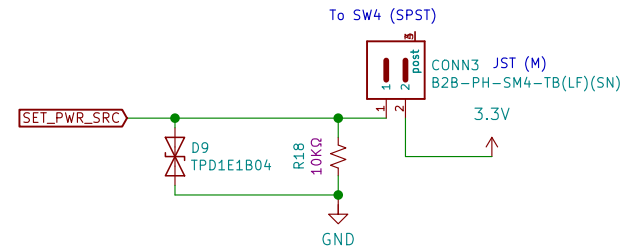
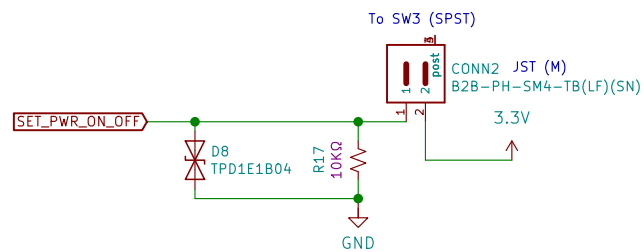


Switches

Push Buttons



Rocker Switches



Note: Rockers connected to JST (M)
via JST(F) -> Wire -> QuickConnect
connector (F) -> Rocker QuickConnect
terminals



Sheet: /Switches/ File: Switches.sch		
Title:		
Size: A4	Date:	Rev: 1
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