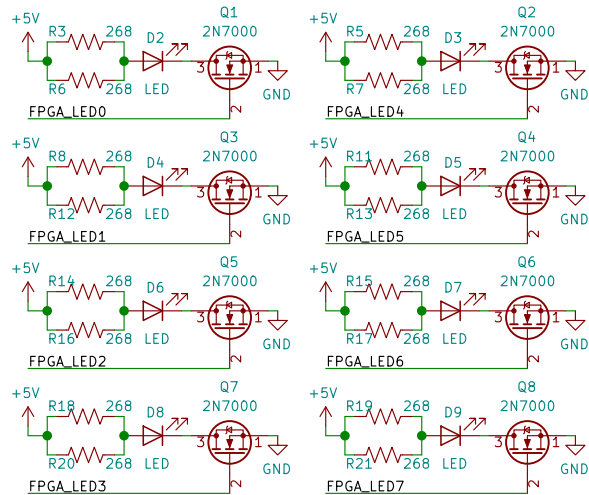


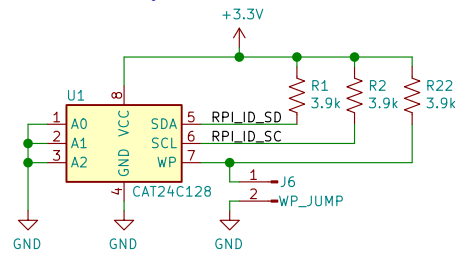
## User LEDs



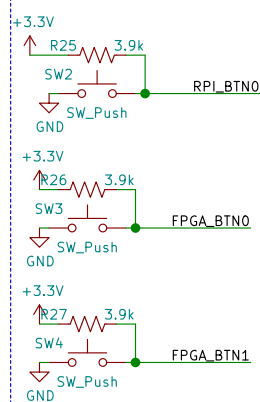
## 128Kb Configuration EEPROM

This EEPROM is for storing Linux Device Tree (DT) configuration. It connects to the dedicated I2C bus that the Raspberry Pi provides. The I2C EEPROM is part of the official HAT spec but likely won't be populated for the class.

J6 must be installed in order to pull down the WP line and write the configuration to the EEPROM.



## User Buttons

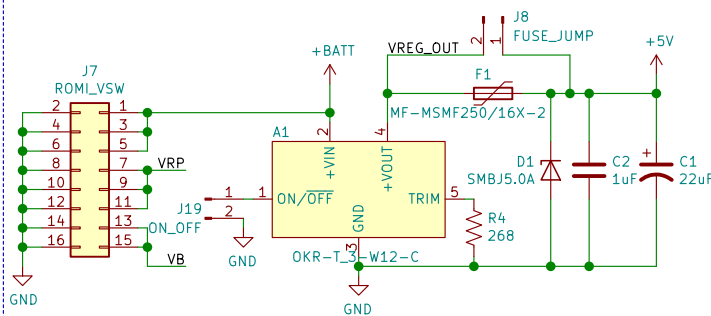


- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

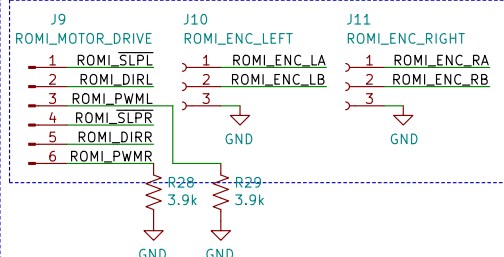
## 5V Regulator Powered by Romi VSW

The Murata OKR-T/3 J8 can be used to connect an external fuse or bypass fusing entirely.

TRIM resistor of 268 ohms sets VOUT to 5V

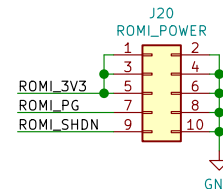
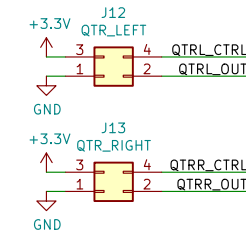


## Romi Motor I/O

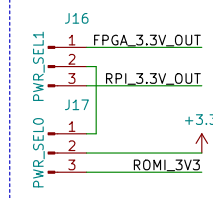


## Pololu QTR Reflectance Sensors

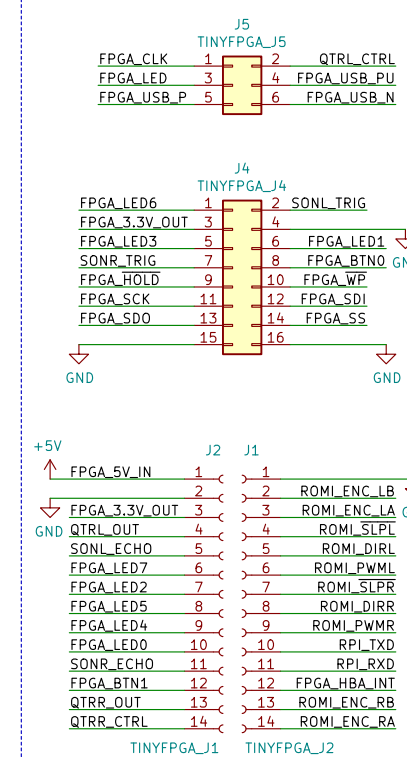
These are the RC-type sensors: <https://www.pololu.com/docs/0J13/2>



## 3.3V Power Select Jumper

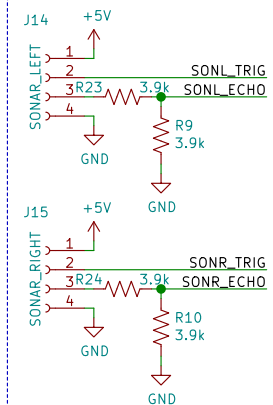


## TinyFPGA I/O Headers



## HC-SR04 Ultrasonic Range Sensors

Sonar is 5V I/O but 3.3V is enough to assert TRIG, and the ECHO can be read with a simple voltage divider. 2.5V will register as HIGH.



Sheet: /  
File: tinyfpga-raspi-romi-board.sch

## Title:

Size: A4  
KiCad E.D.A. kicad 5.1.2

Date:

Rev:

Id: 1/1