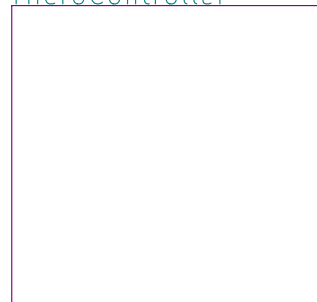


Power Regulation



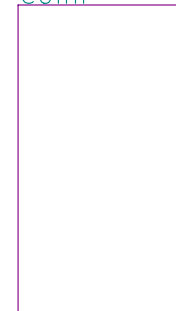
Power Regulation.sch

MicroController



MicroController.sch

Conn



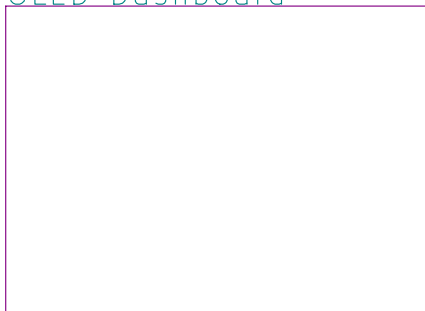
Conn.sch

Peripherals



Peripherals.sch

OLED Dashboard



OLED Dashboard.sch



Sheet: /  
File: OBC-PDB.sch

**Title:** On Board Computer (OBC)

Size: A4 Date: Feb. 24/2018

KiCad E.D.A. kicad 4.0.7

Rev: 1.0

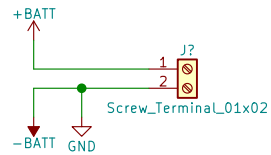
Id: 1/6

12V

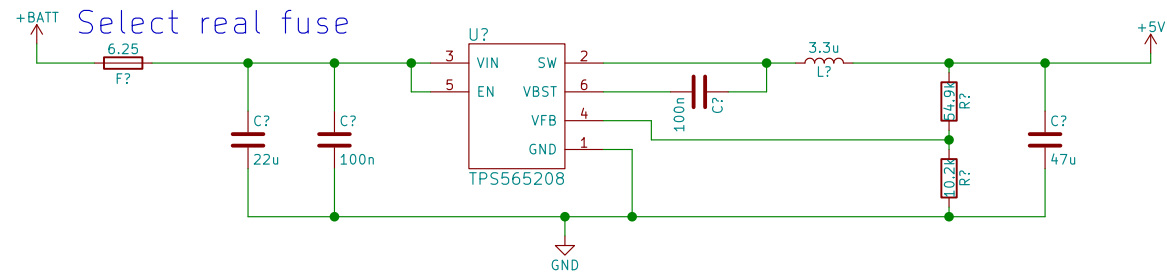


Supplied from Lead Acid Battery

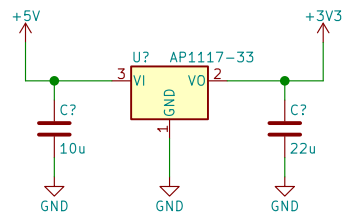
5V



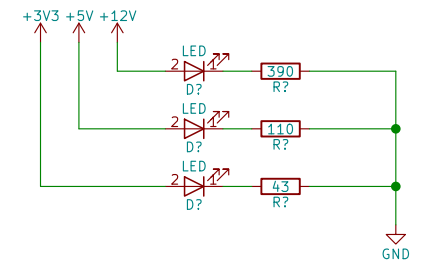
Select real fuse



3V3 LDO



PWR Indication



Sheet: /Power Regulation/  
File: Power Regulation.sch

**Title:**

Size: A4  
KiCad E.D.A. kicad 4.0.7

Date:

**Rev:**  
Id: 2/6

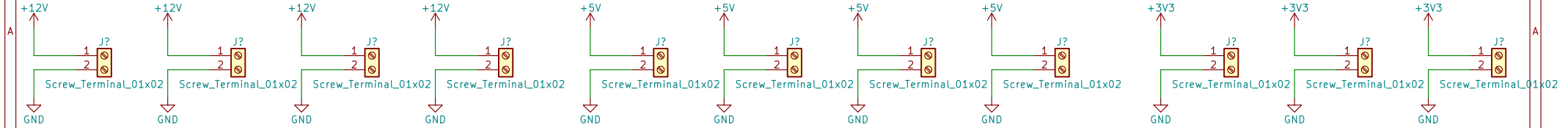


## Terminal Blocks

4 x 12V

4 x 5V

3 x 3V3



## Extra I/O

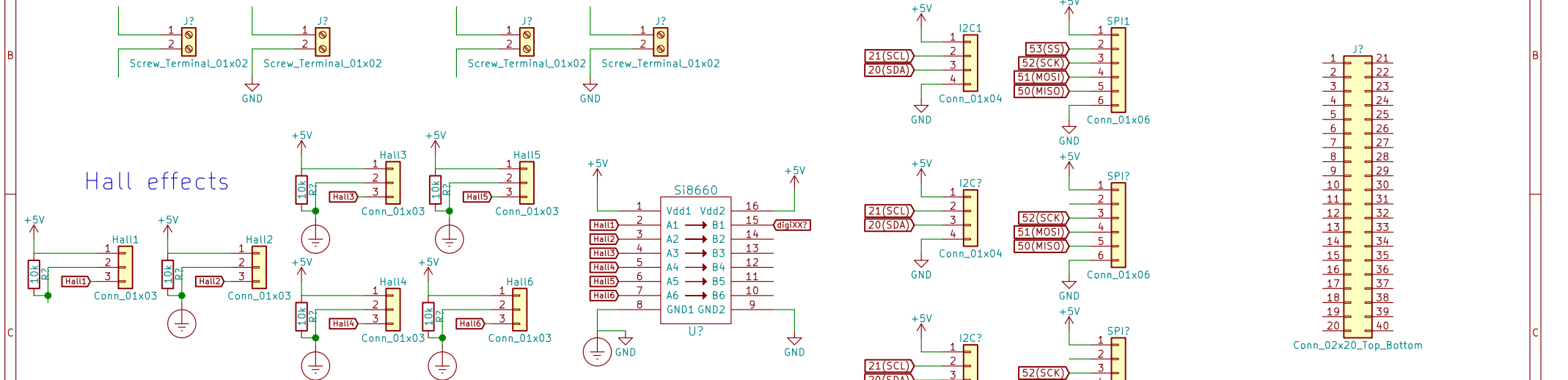
### Shiftbutton Screw Terms

3 Shift Buttons

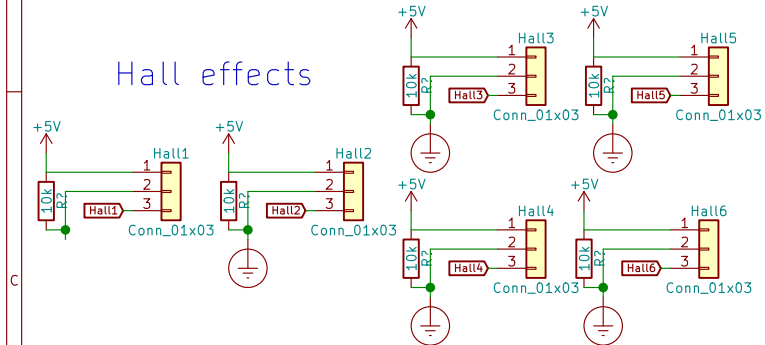
Buttons

I2C and SPI

Remaining Pins (Male)

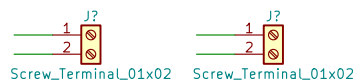


### Hall effects



### Analog

Bunch of analogs that are not on sensors and stuff



Sheet: /Conn/  
File: Conn.sch

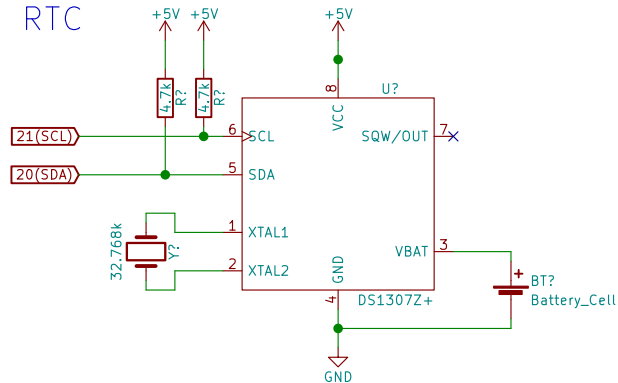
**Title:**

Size: A4  
KiCad E.D.A. kicad 4.0.7

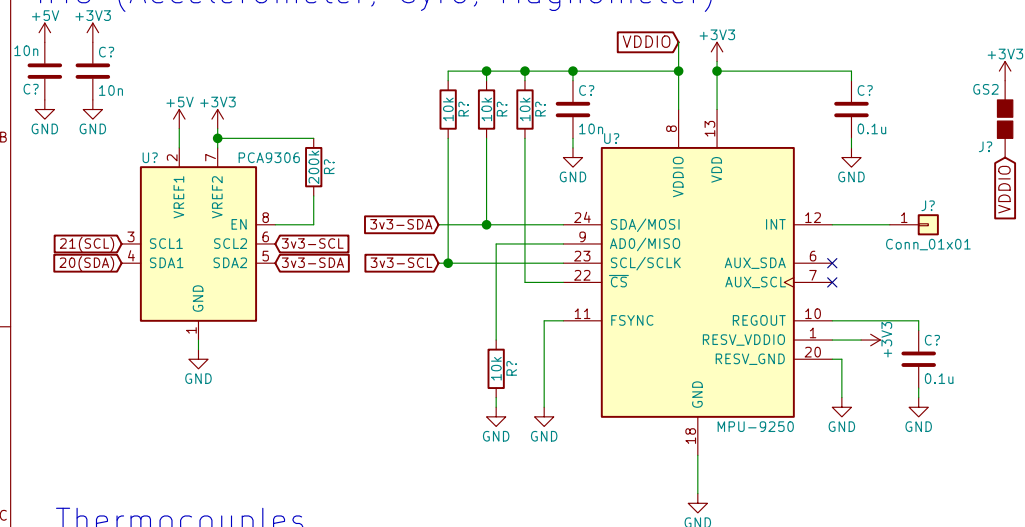
Date:

**Rev:**  
Id: 4/6

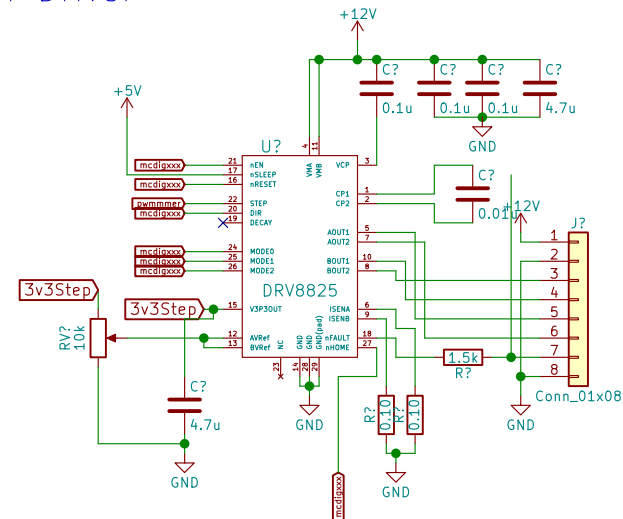
## RTC



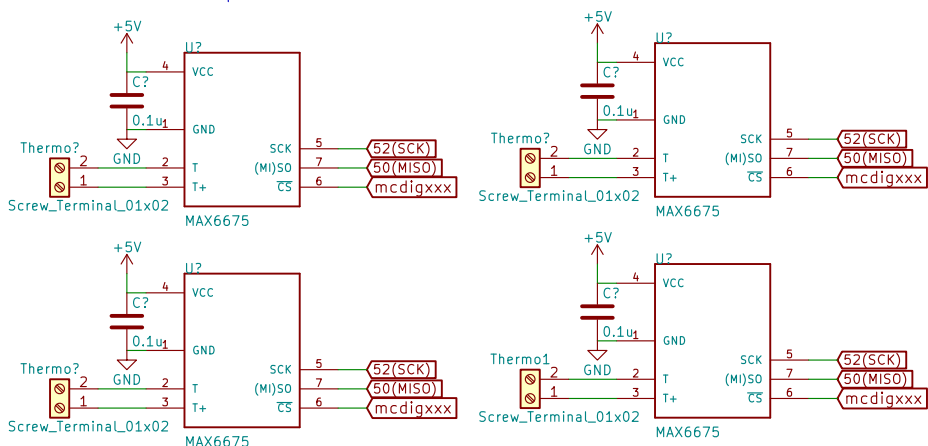
## IMU (Accelerometer, Gyro, Magnometer)



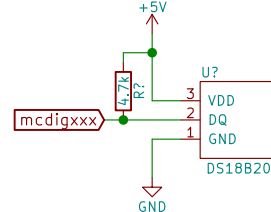
## Motor Driver



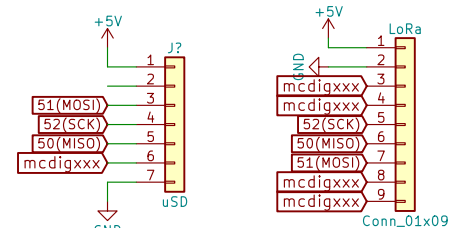
## Thermocouples



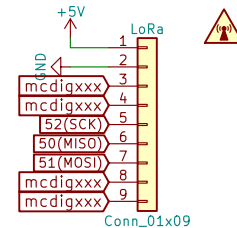
## On Board Temp



## uSD



## LoRa



Sheet: /Peripherals/  
File: Peripherals.sch

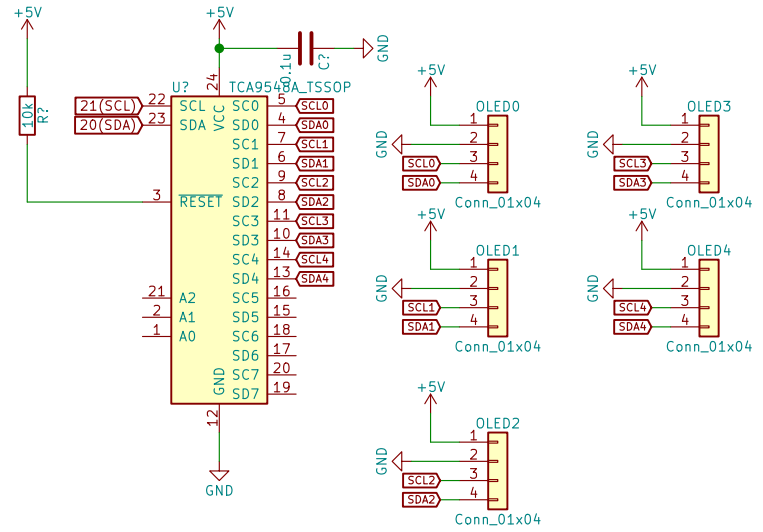
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KiCad E.D.A. kicad 4.0.7

Date:

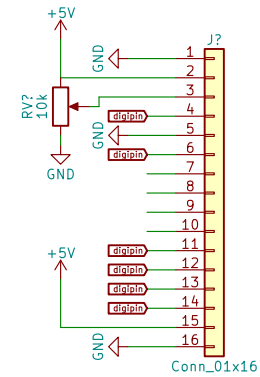
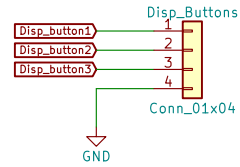
**Rev:**  
Id: 5/6

i2c screens w/ tca9548A expander



20x4 lcd screen

Screen Buttons



Sheet: /OLED Dashboard/  
File: OLED Dashboard.sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad 4.0.7

**Rev:**

Id: 6/6