

Alperen KOLAMUÇ  
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**Kolamuc Industry**

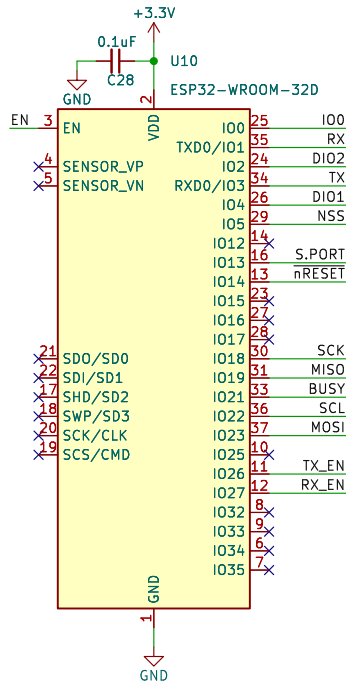


Sheet: /  
File: RadioNoob.kicad\_sch

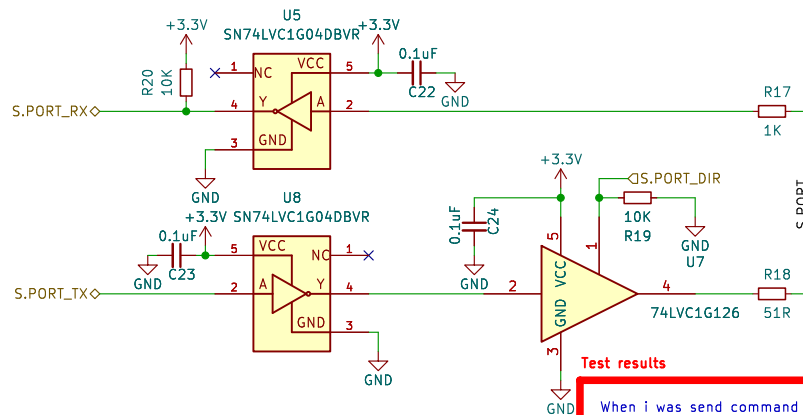
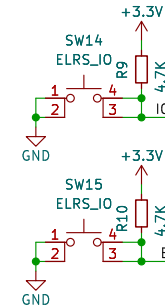
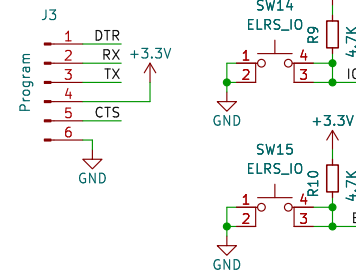
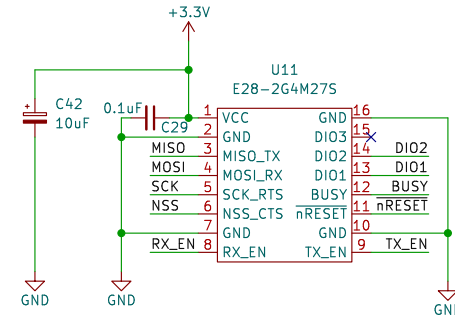
**Title: Radionoob**

Size: A4 Date: 2023-04-30  
KiCad E.D.A. kicad 7.0.8

**Rev: 1.0**  
Id: 1/8



SCL: GPIO32  
SDA: GPIO22



#### Test results

When i was send command and echo to my tx.  
U7 should be at the RX line entrance of U5.  
So i turn off my rx when sending data from uart.  
When i finish sending data, i turn on my RX to listen to the data coming from the s.port.

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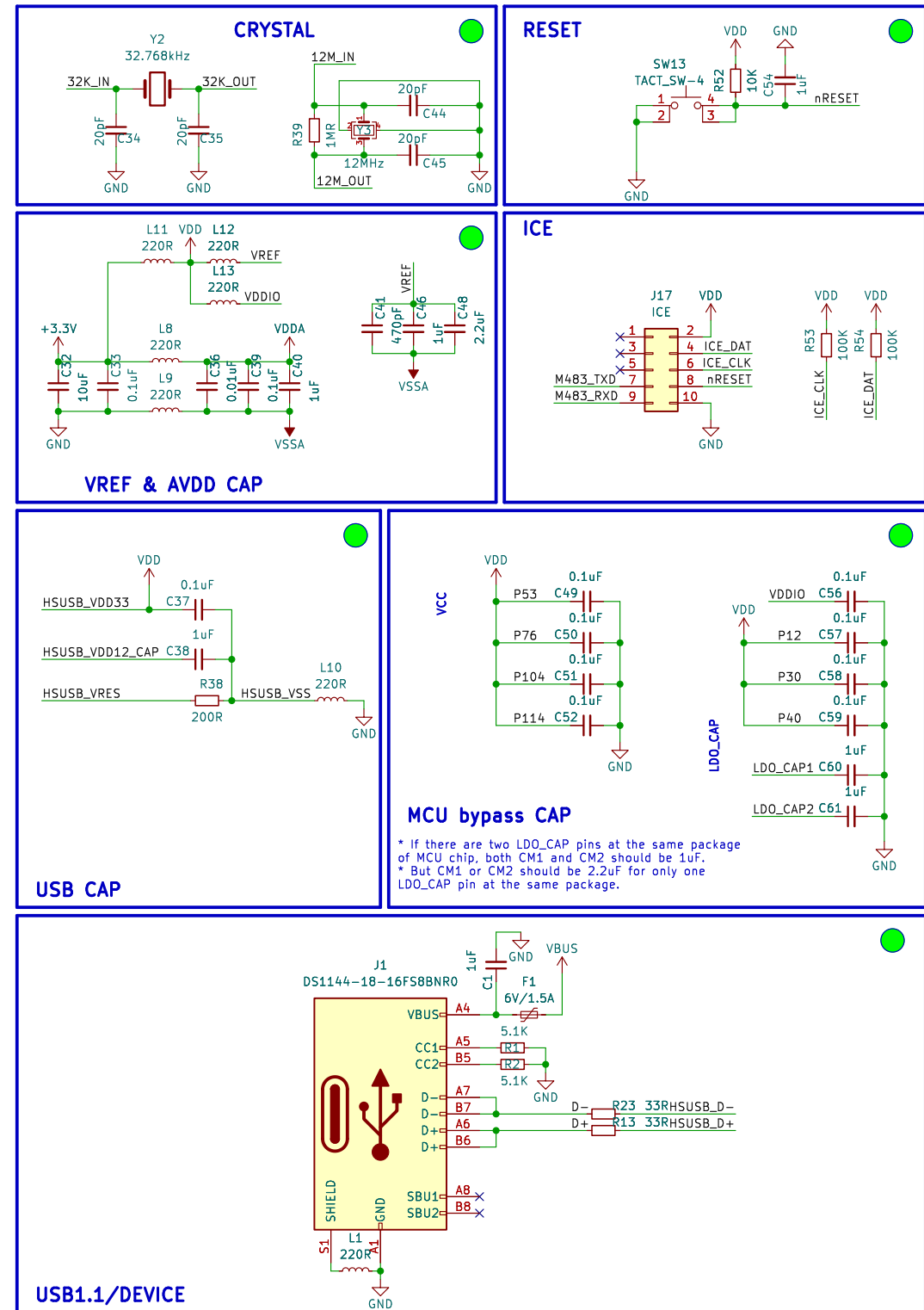
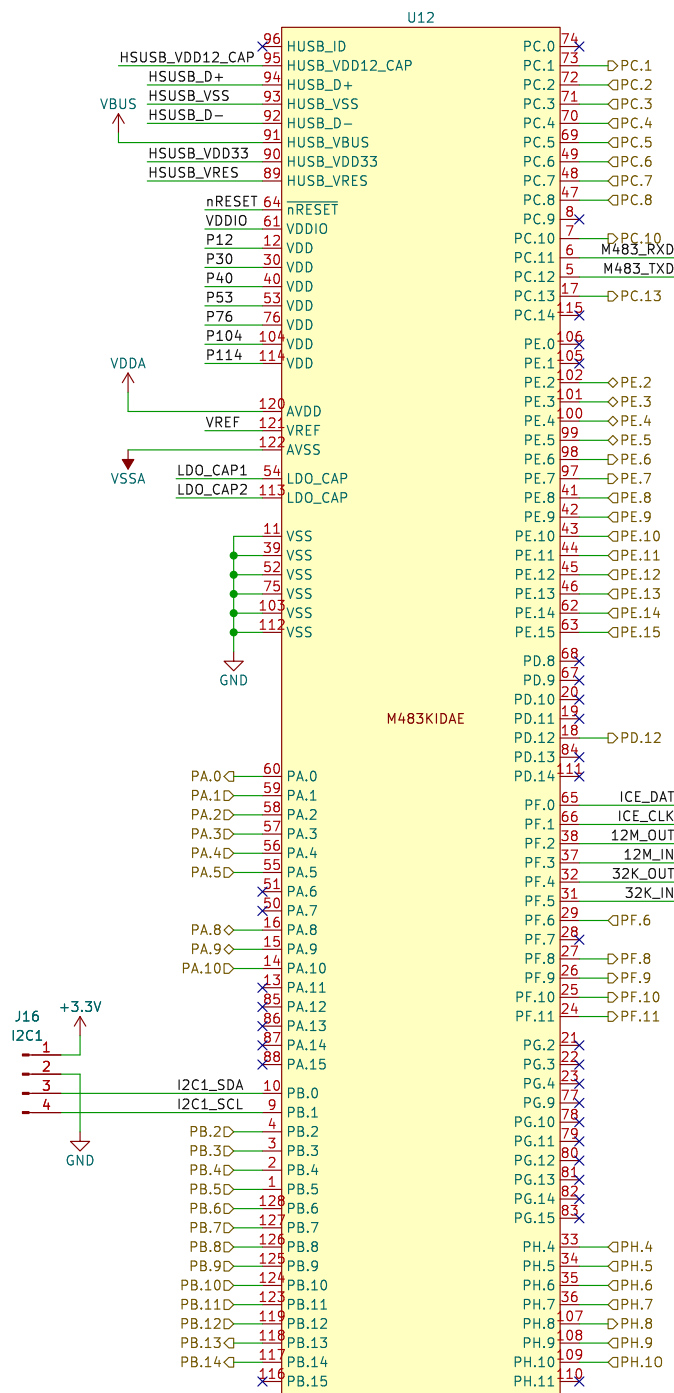
Sheet: /ELRS/  
File: elrs.kicad\_sch

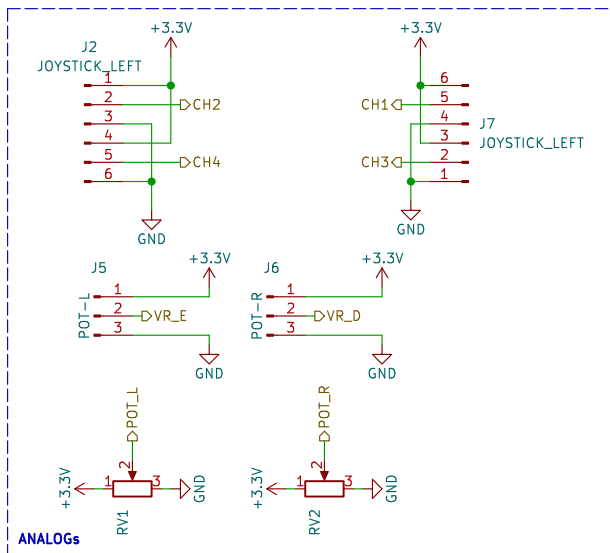
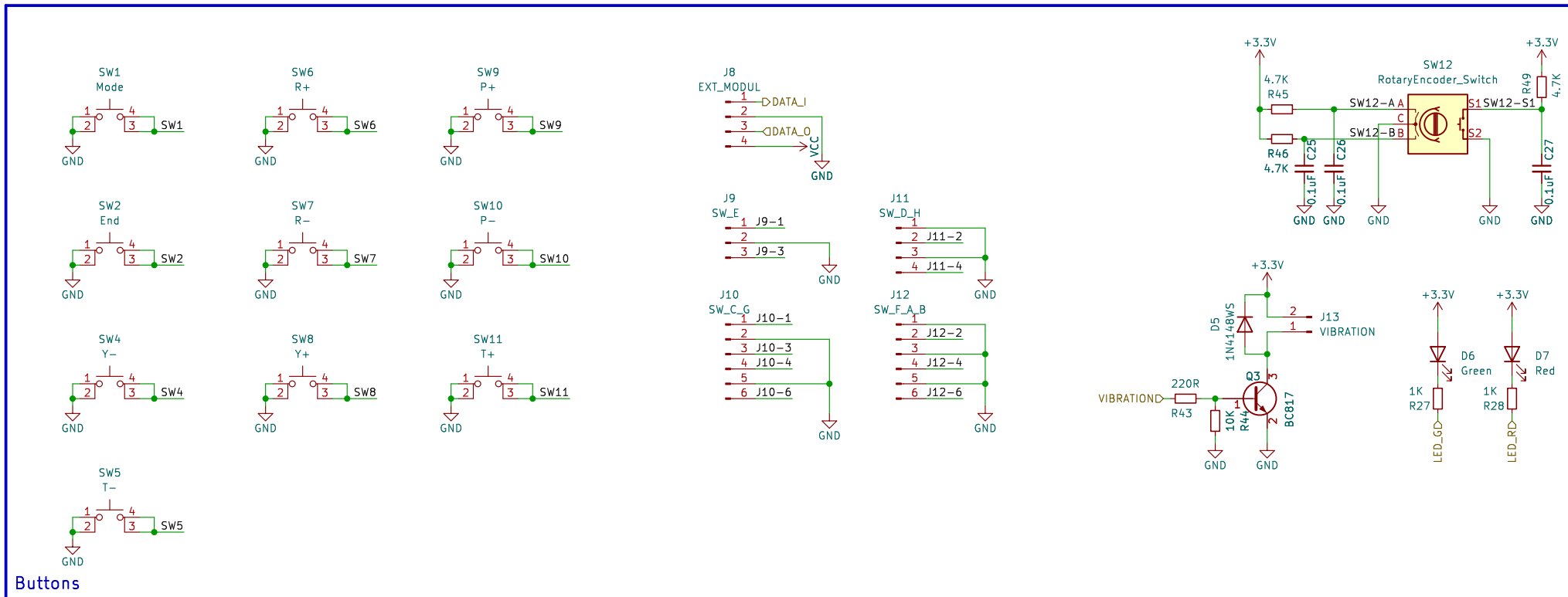
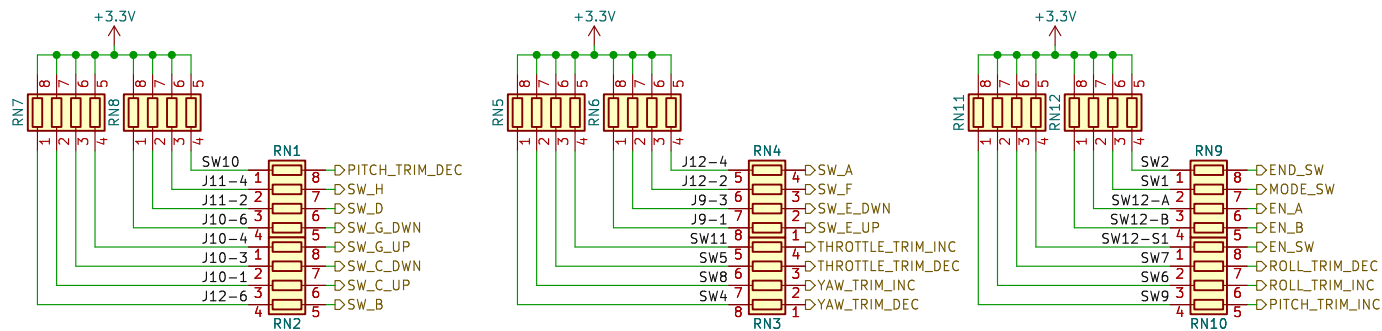
#### Title: ELRS Transmitter

Size: A4 Date: 2023-04-30  
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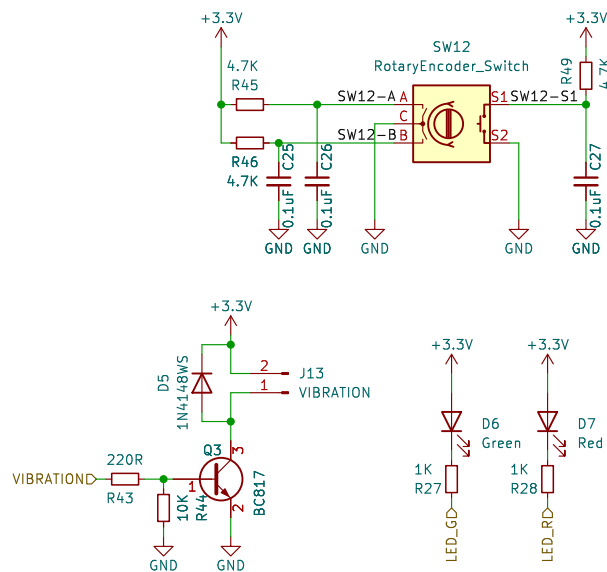
Rev: 1.0  
Id: 2/8





**Test results**

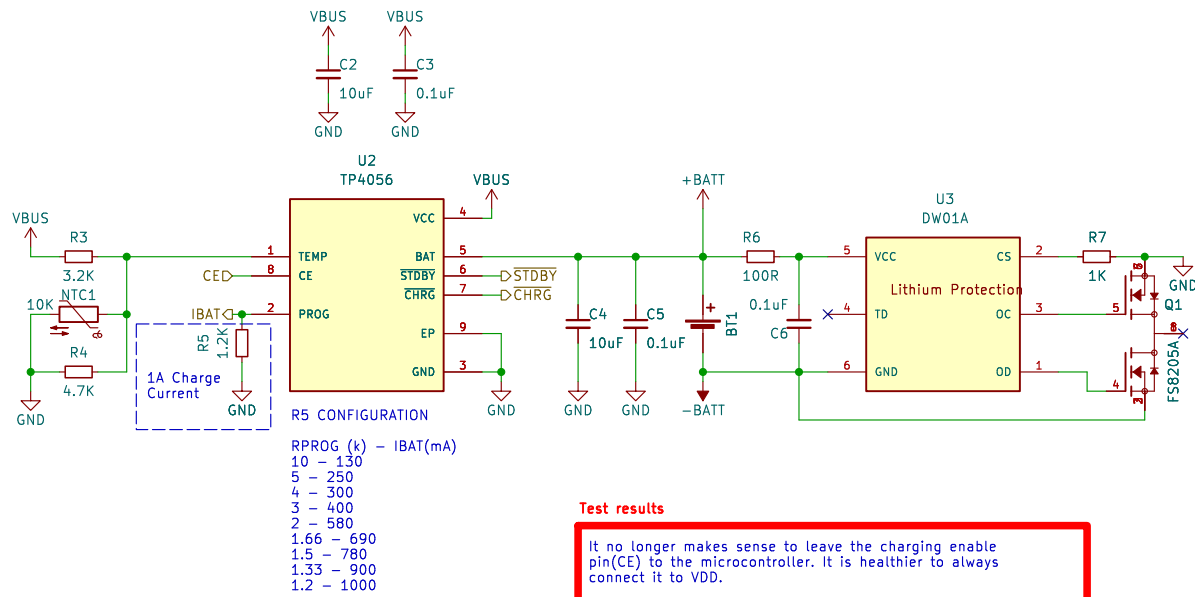
I forgot to add an opamp low pass filter to the analog channels and this annoyed me a lot.



**Test results**

Pins a and b of the encoder should be swapped. Because when I turn the encoder to the right, the value decreases instead of increasing. I solved it in software, but it is a problem that can be solved with hardware.

- [\*] Stick Trim Buttons = x8
- [\*] Menu Buton = x1
- [\*] ESC Buton = x1
- [\*] Analog Pot = x2
- [\*] Stick Analog Input = x4



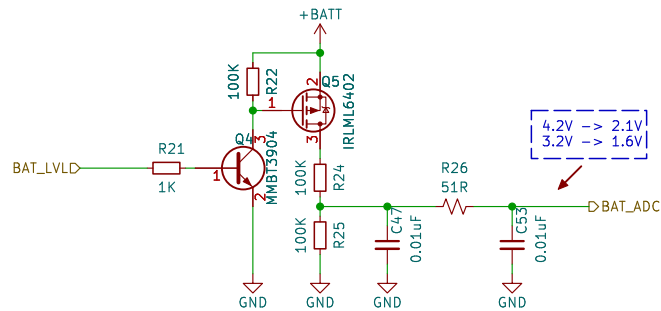
**BATTERY CHARGER & POWER MANAGEMENT**

**Test results**

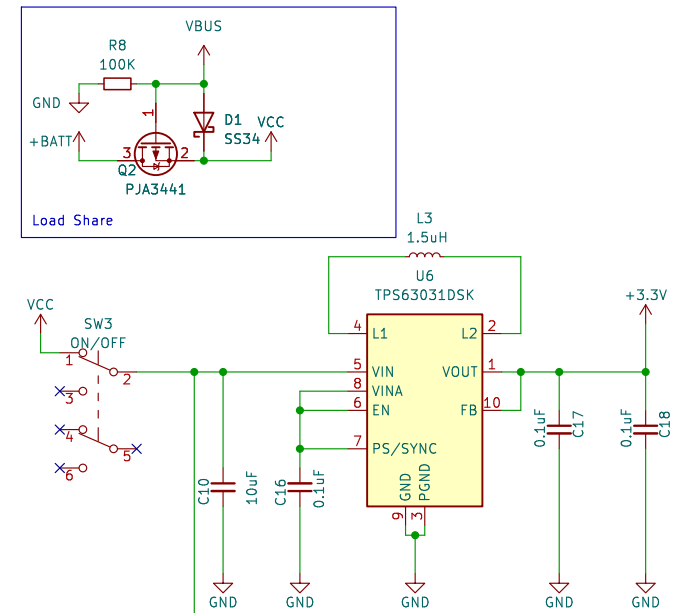
It no longer makes sense to leave the charging enable pin(CE) to the microcontroller. It is healthier to always connect it to VDD.

There is no need for the charging LED to go to the microcontroller. I already read the battery status in analog form.

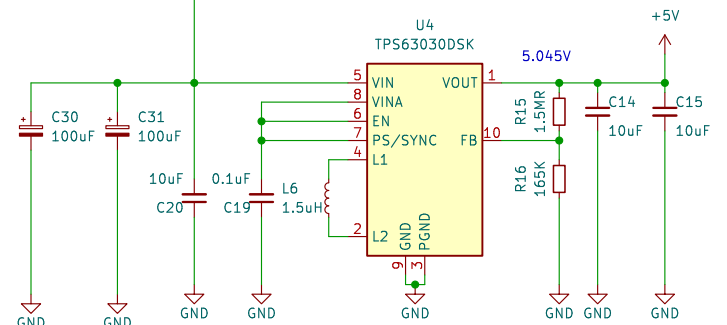
OVP  
UVP



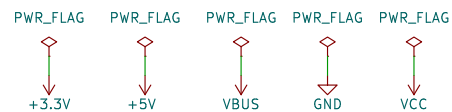
**BATTERY LEVEL**



**3.3V BUCK-BOOST Converter**



**5V BUCK-BOOST Converter**



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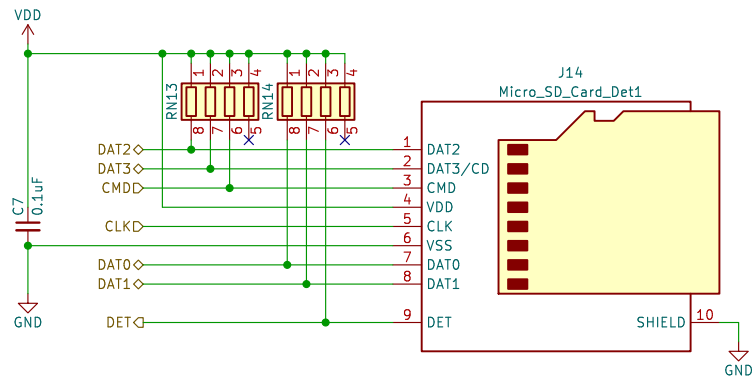
Sheet: /Power/  
File: power.kicad\_sch

**Title: Power Management**

Size: A4 Date: 2023-04-30  
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**Rev: 1.0**  
Id: 5/8





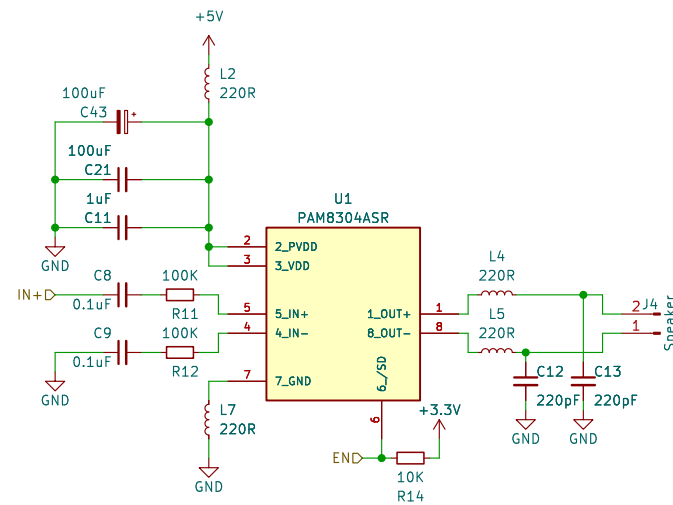
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Sheet: /SD Card/  
File: sd\_ card.kicad\_sch



### Title: uSD Card

Size: A4 Date: 2023-04-30  
KiCad E.D.A. kicad 7.0.8

Rev: 1.0  
Id: 6/8



#### Test results

GND pin does not work when connected through a ferrite coil.  
It needs to be connected directly to GND.

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Sheet: /Audio Amplifier/  
File: audio\_amplifier.kicad\_sch

**Title: Audio Amplifier**

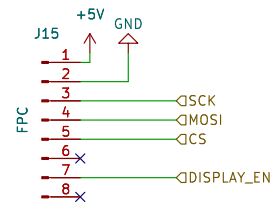
Size: A4 Date: 2023-04-30

KiCad E.D.A. kicad 7.0.8

**Rev: 1.0**

Id: 7/8

**Akolamuc**



#### Test results

The EXTCOM pin must be connected to the microcontroller for square wave.

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Sheet: /LCD/  
File: lcd.kicad\_sch

#### Title: Sharp Memory Display

Size: A4	Date: 2023-04-30	Rev: 1.0
KiCad E.D.A. kicad 7.0.8		Id: 8/8