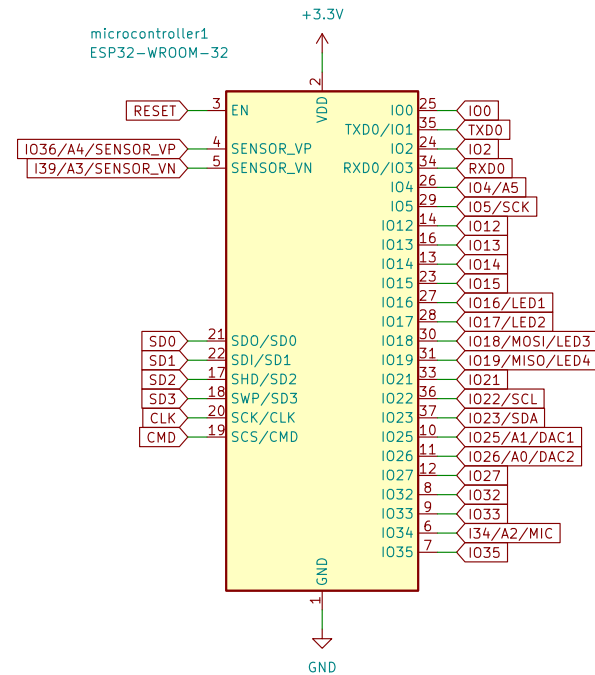
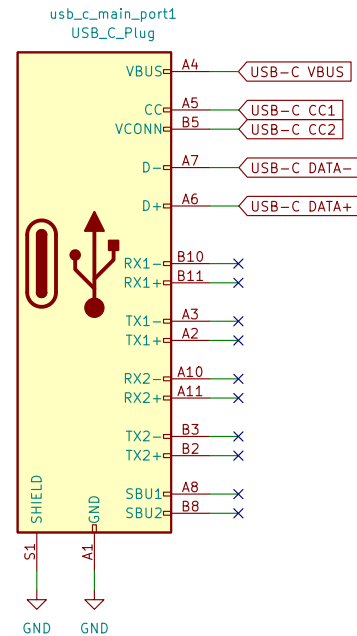


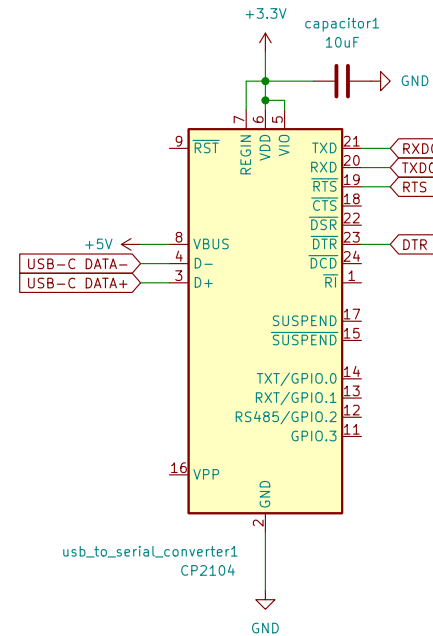
ESP32



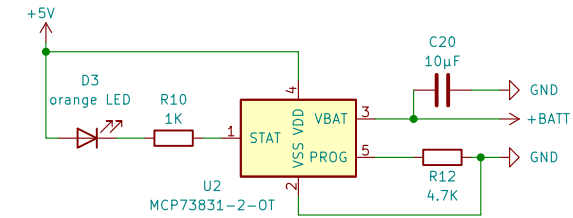
USB-C port



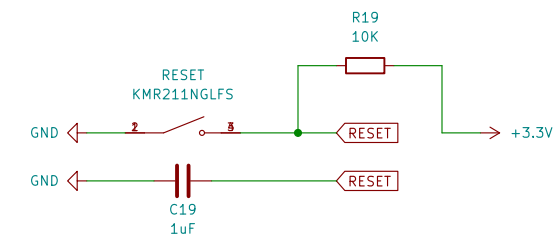
USB to serial



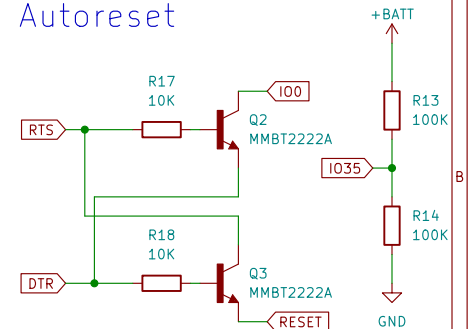
Lipo charging



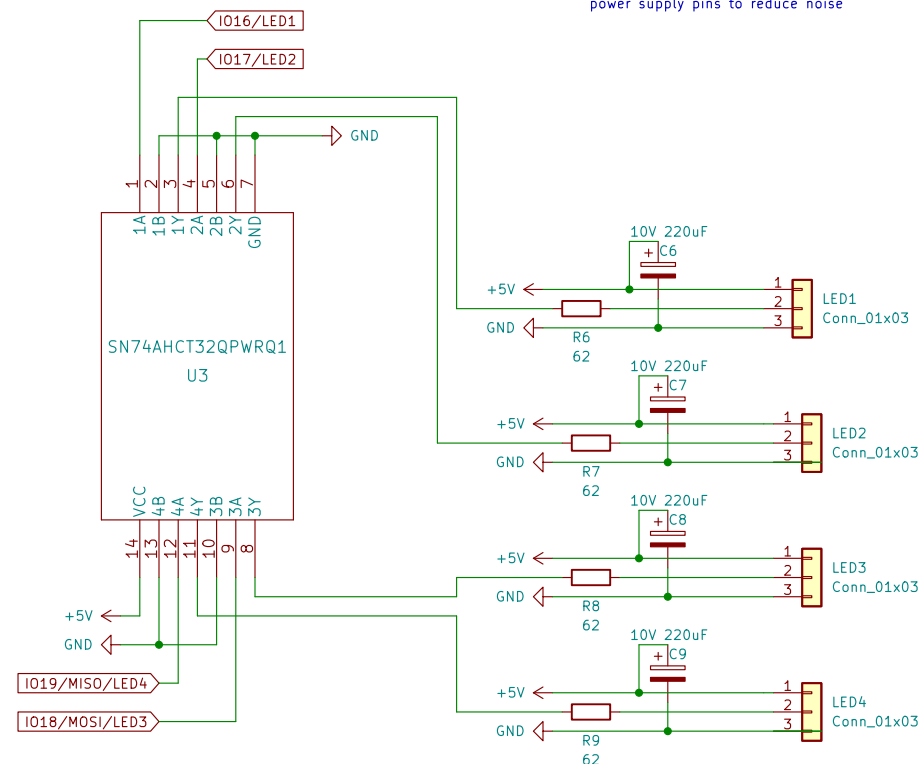
Reset



Autoreset



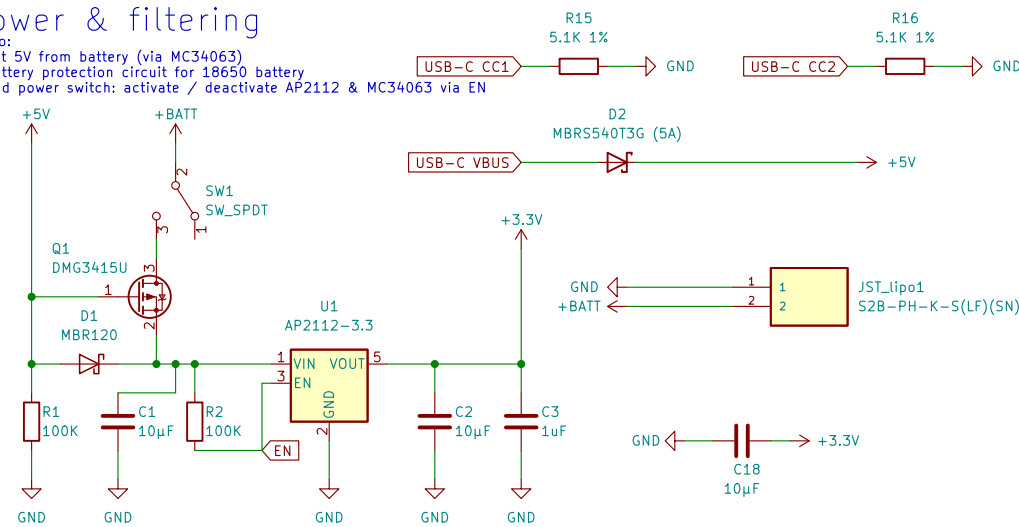
LED strip connectors



- Decide if capacitor at input or output or both
- 74xxx: Add 100nF bypass cap across their power supply pins to reduce noise

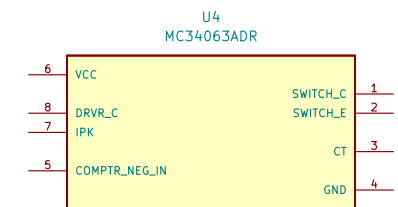
Power & filtering

- get 5V from battery (via MC34063)
- battery protection circuit for 18650 battery
- add power switch: activate / deactivate AP2

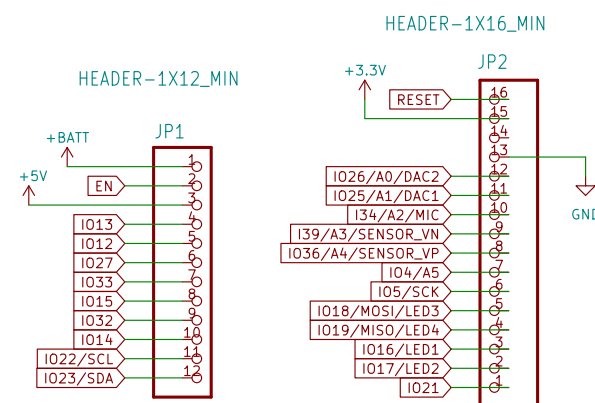


5V step up

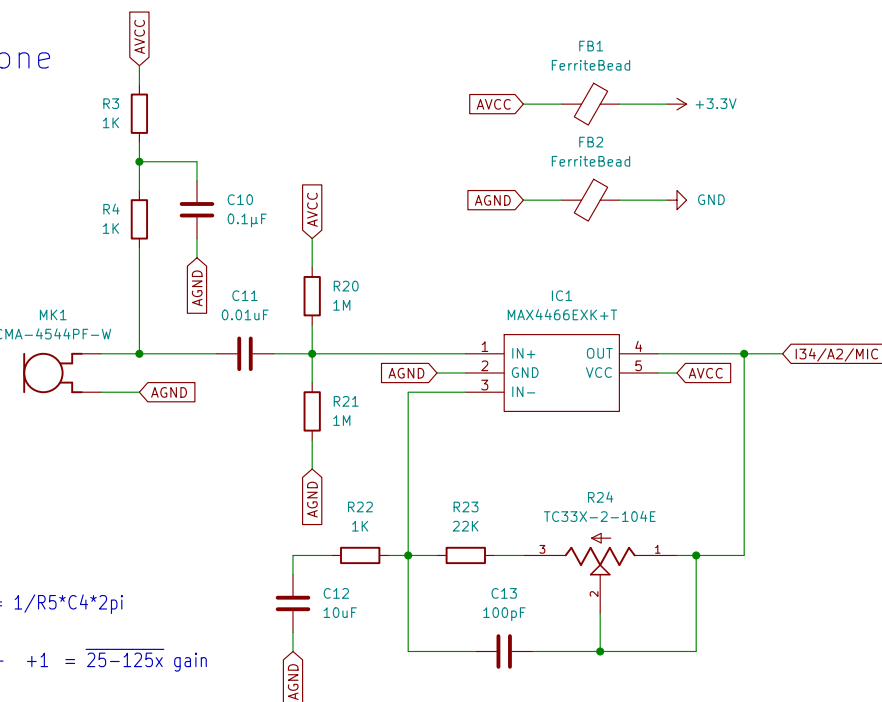
- To Do:
 - get 5V from battery (via MC34063)



Pins



Microphone



Low pass $F_{3db} = 1/R5 \cdot C4 \cdot 2\pi$

$$\text{Gain} = \frac{VR1+R7}{R5} + 1 = \overline{25-125x} \text{ gain}$$

LED



Mounting holes



Based on
Adafruit HUZZAH32 ESP32 Feather Board
+ Adafruit MAX4466

designed by glowingkitty

Sheet: /
File: GlowCore.kicad_sch

Title: GlowCore

Size: A3

Date:



Size: A3	Date:	Rev:
KiCad E.D.A. kicad (6.0.0-0)		Id: 1/1