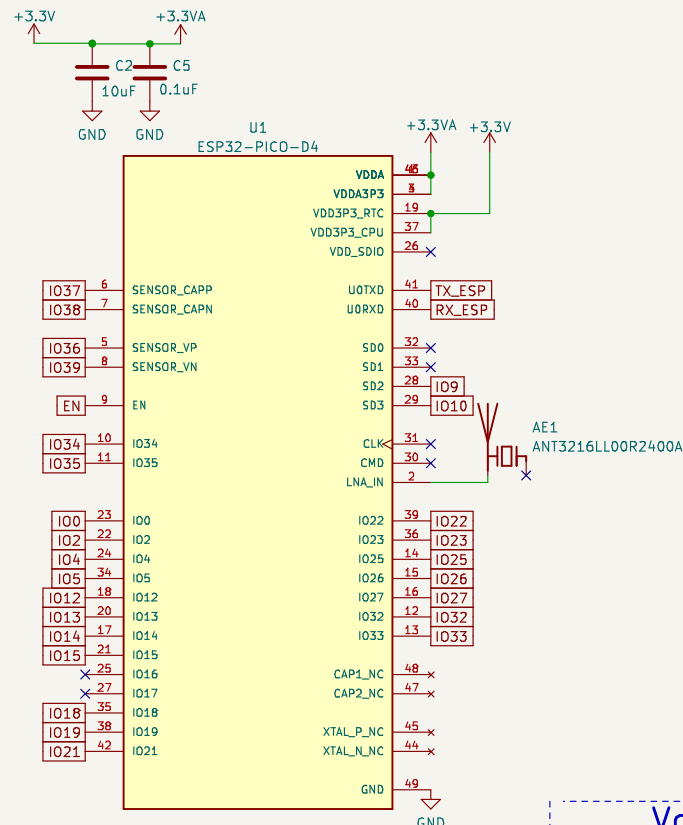
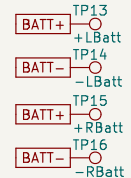


## SOC

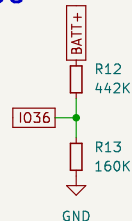


ESP32-PICO-D4 Datasheet:  
"Pins IO16, IO17, CMD, CLK, SD0 and SD1  
are used to connect the embedded flash,  
and can not be used for other purposes.  
For details, please see Section 6 Schematics."

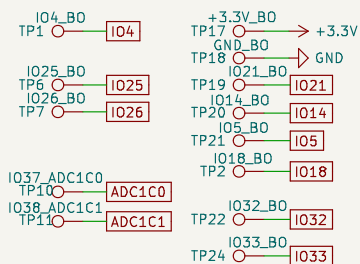
## Battery Terminals



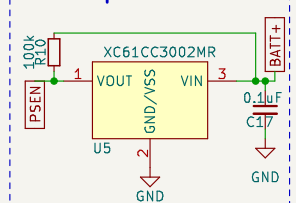
## Battery Voltage Sense



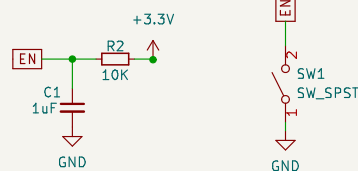
## Breakout



## Voltage Supervisor

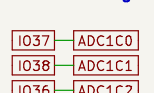


## Reset

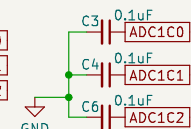


## ADC

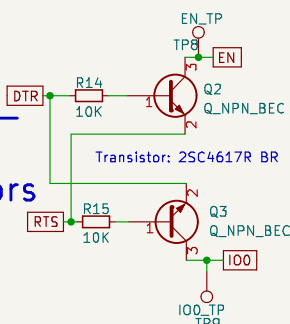
### GPIO Assign



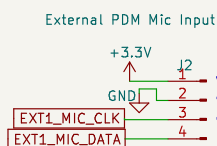
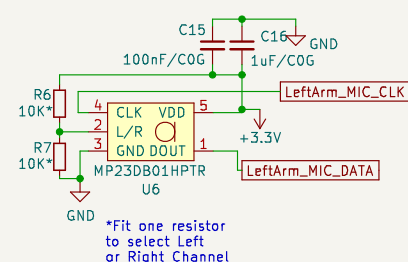
### Filters



## Program- ming Transistors



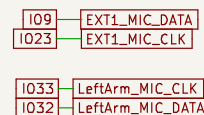
## Microphone



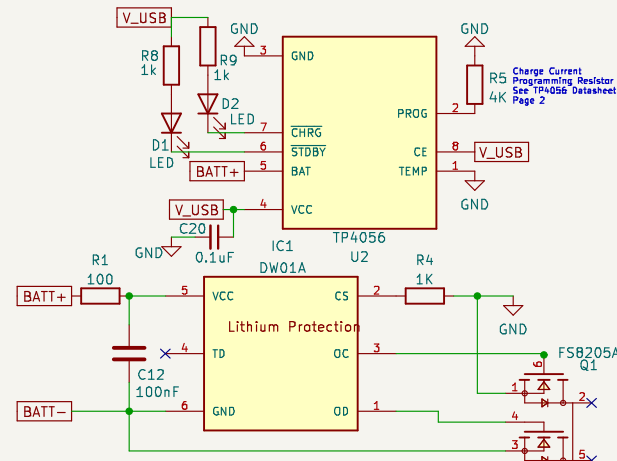
Compatible 1mm pitch Connectors - middle key:  
\* 665104131822 DigiKey: 732-6096-1-ND A\$1.33/50  
\* 1734709-4 DigiKey: A99957CT-ND A\$1.38/10  
\* C145956 LCSC: C145956 A\$0.10/47  
\* 1.0-4PWB LCSC: C2905006 A\$0.06/10

Compatible Microphones:  
\* MP23DB01HPCT Digikey: 497-MP23DB01HPCT-ND A\$2.75/10  
\* MP23DB01HPTR Mouser: 511-MP23DB01HPTR A\$2.62/10  
\* GMA3526H10-B26 LCSC: C498192 A\$1.33/10

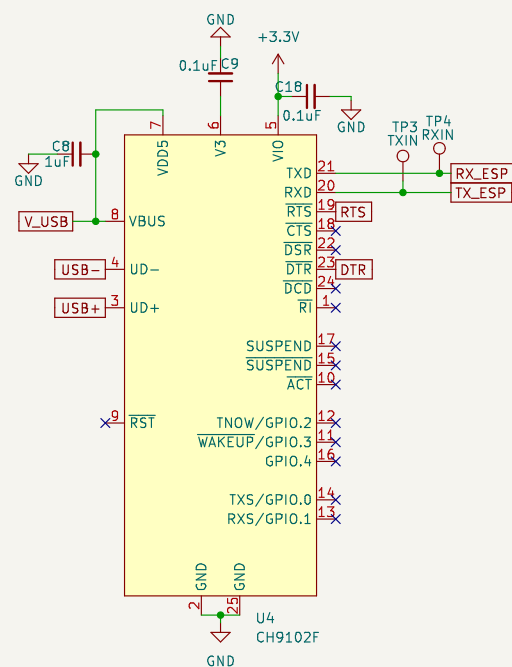
## Breakout



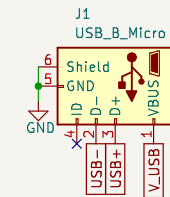
## Lipo charging and protection



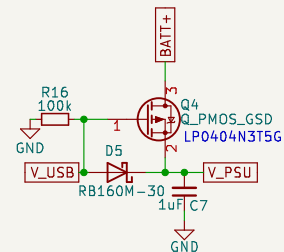
## Programming



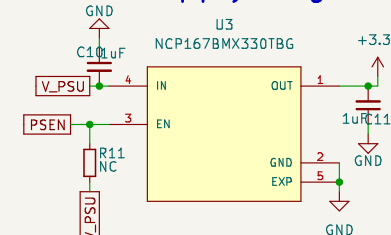
## USB



## Power Supply Switching



## Power Supply Regulator



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Design: Cayden Pierce, Nicholas Gray, Paul Hamilton  
**Team Open Smart Glasses**  
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File: OSSG\_v0p3.kicad\_sch

**Title: Open Source Smart Glasses v0.3**

Size: A3 Date: 2022-05-14  
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu22.04.1

Rev: 0.3  
Id: 1/1