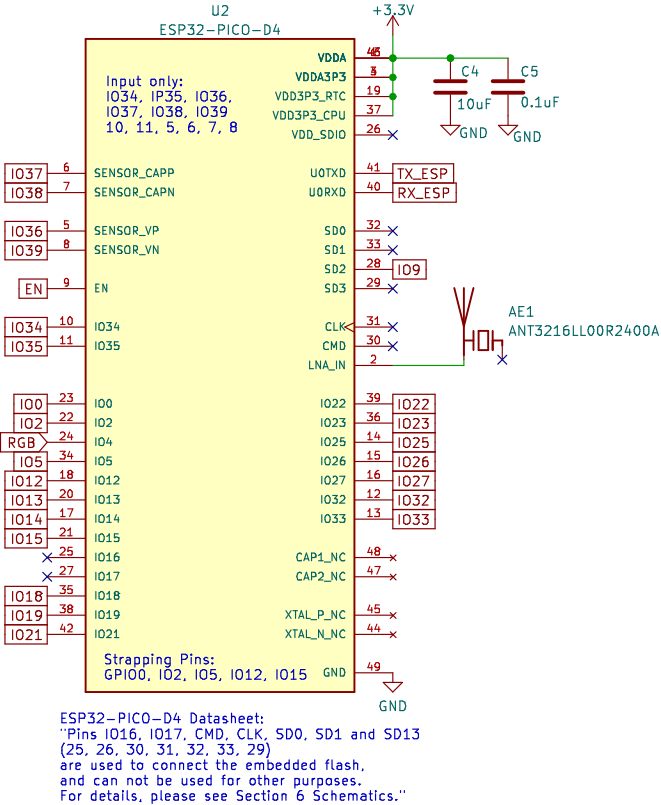


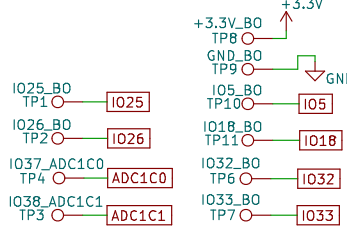
SOC



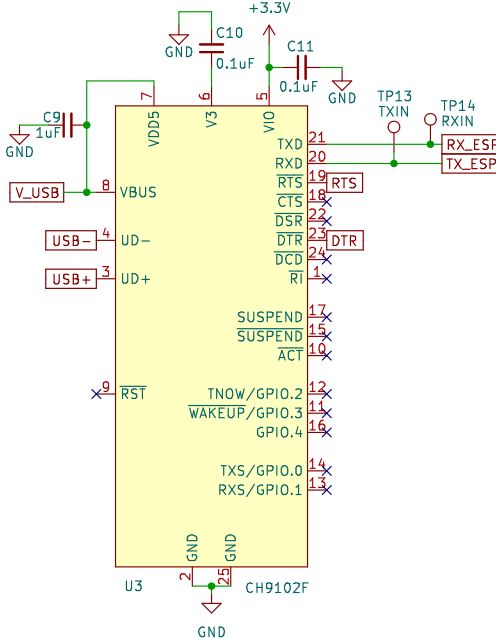
Breakout



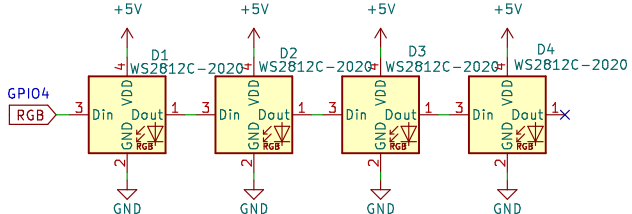
Breakout



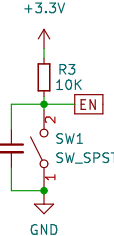
Programming



Visual Feedback RGB LEDs



Reset

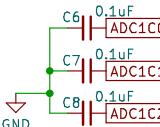


ADC

GPIO Assign

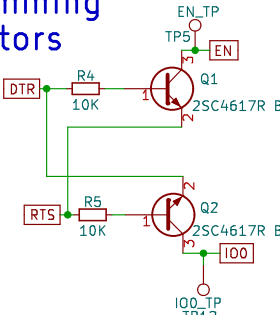


Filters

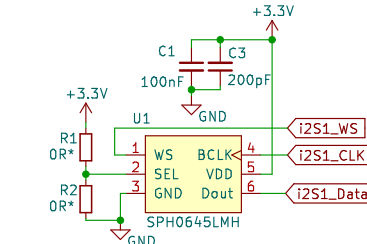


Filter Caps should be placed close to MC

Programming Transistors



Microphone

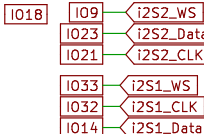


*Fit one resistor to select Left or Right Channel

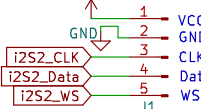
Compatible i2S Microphones

- * SPH0645
- * ICS-43434

Breakout



Ext. i2S Microphone



Power

File: Power.kicad_sch

License: MIT
2P Battery Version
Team Open Smart Glasses
Sheet: /
File: OSSG_v0p4.kicad_sch

Title: Team OpenSource Smartglasses

Size: A3	Date: 2022-09-16
KiCad E.D.A. kicad 6.0.7-f9a2dcde07~116~ubuntu22.04.1	

Rev: V0.4b2

U5
AP5054HTC

VBUS 4 VCC BAT 3 BATT+

D5 1 CHRG Red 5 STBY PROG 6 R7 2K

GND 2

2K=500mA charge

The diagram shows a buck converter circuit. A 7V input is connected to the LX pin (pin 1) of the SY7088 regulator (U8). A 1.5μH inductor (L1) is connected between LX and the OUT pin (pin 8). A 22μF capacitor (C18) is connected between LX and GND. The EN pin (pin 3) is connected to a PSEN signal. The IN pin (pin 6) is connected to the OUT pin (pin 8). The FB pin (pin 5) is connected to a voltage divider consisting of a 470K resistor (R12) and a 147K resistor (R13) connected to a 5V supply. The GND pin (pin 4) is connected to the common ground. The output of the regulator (pin 8) is labeled TP17 and provides a 5V output. A 22μF capacitor (C20) is connected between the 5V output and GND.

Dual LiPo
2.7V to 4.2V
500mA Batteries

will be supplying 22mA to GND while switched on

Id: 2/2