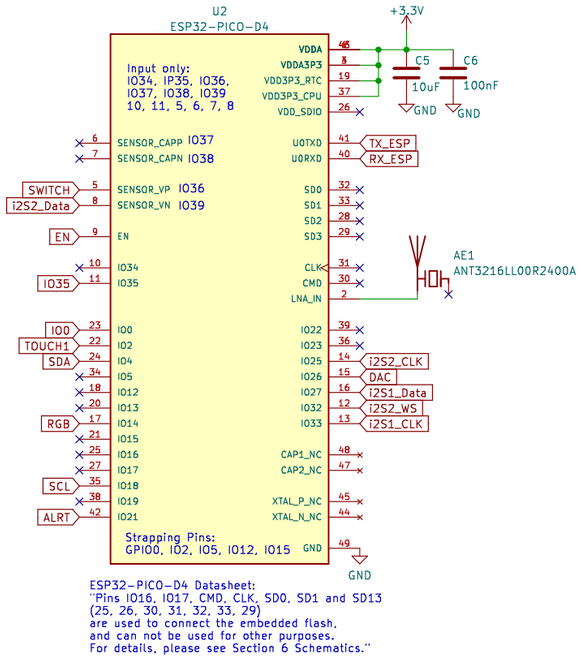
SOC

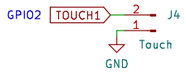


ESP32-PICO-D4 Datasheet:
"Pins IO16, IO17, CMD, CLK, SD0, SD1 and SD13
(25, 26, 30, 31, 32, 33, 29)
are used to connect the embedded flash,
and can not be used for other purposes.
For details, please see Section 6 Schematics."

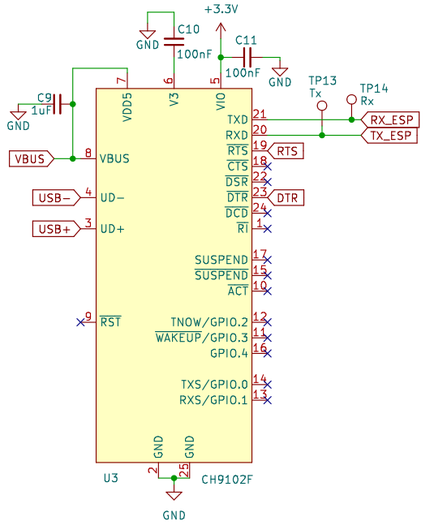
Experimental

HUD

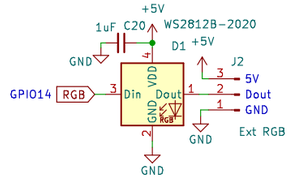
Touch



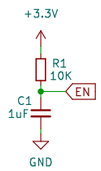
Programming



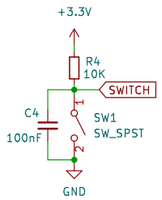
Visual Feedback RGB LEDs



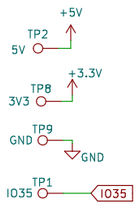
Reset



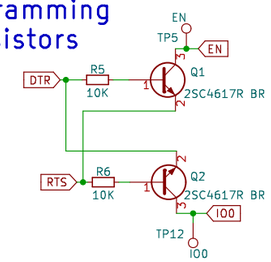
User Switch



ADC + Breakouts

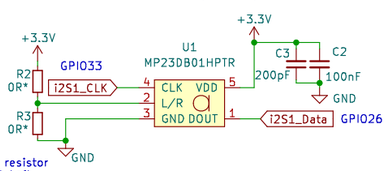


Programming Transistors



Microphones

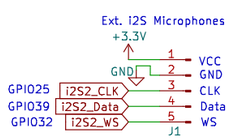
PDM (over I2S) Microphones



*Fit one resistor
to select Left
or Right Channel

Compatible PDM Microphones:
* MP23DB01HPCT Digikey: 497-MP23BD01HPCT-ND A$2.75/10
* MP23DB01HPTR Mouser: 511-MP23DB01HPTR A$2.62/10
* GMA3526H10-B26 LCSC: C498192 A$1.33/10

Ext. I2S Microphones



Compatible I2S Microphones:
* SPH0645
* ICS-43434

Power

File: Power.kicad_sch

MIT License

2P Battery Version

Team Open Smart Glasses

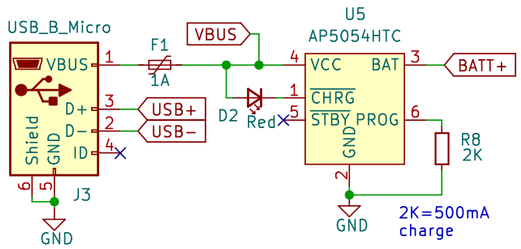
Sheet: /
File: OSSG_v0p4.kicad_sch

Title: Team OpenSource Smartglasses

Size: A3	Date: 2022-09-21	**Rev: V0.4b6**
KiCad E.D.A. kicad 6.0.7-f9a2dced07~116~ubuntu22.04.1		Id: 1/2

USB In

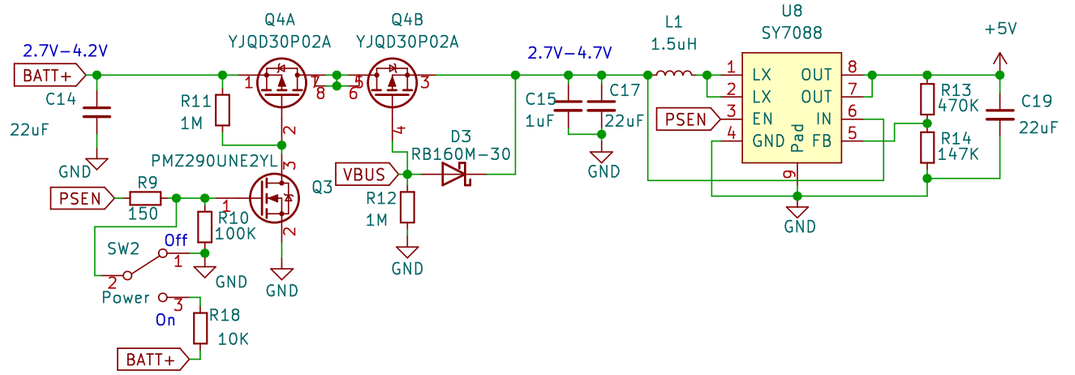
500mA LiPo Battery Charger



Power On/Off + Low Battery Isolation

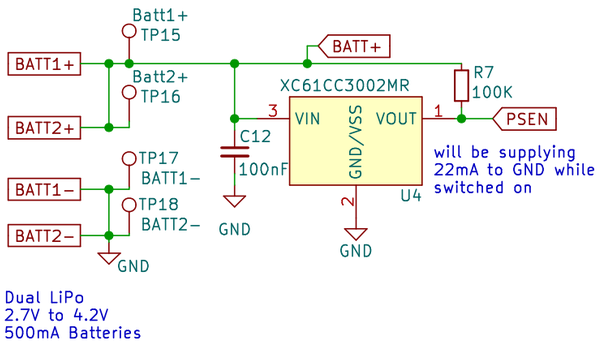
Battery Bypass

2.7V–4.7V to 5V Boost



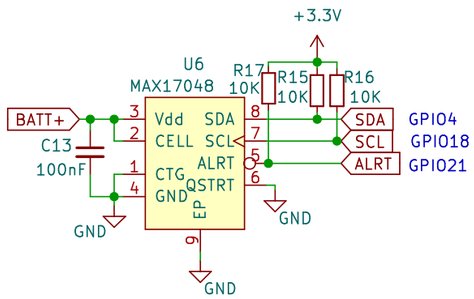
Battery Terminals

Voltage Supervisor

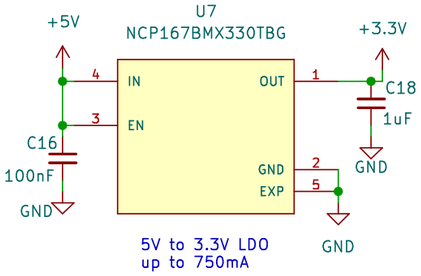


Dual LiPo
2.7V to 4.2V
500mA Batteries

Battery Fuel Gauge



5V to 3.3V LDO



MIT License
2P Battery Version

Sheet: /Power/
File: Power.kicad_sch

Title: Team OpenSource Smartglasses

Size: A4	Date: 2022-09-21	**Rev: V0.4b6**
KiCad E.D.A. kicad 6.0.7-f9a2dced07-116~ubuntu22.04.1		Id: 2/2