SOC Input only: 1034, IP35, 1036, 1037, 1038, 1039 10, 11, 5, 6, 7, 8 VDD3P3_CPU × 6 SENSOR_CAPP 1037 × 7 SENSOR_CAPN 1038 SWITCH 5 SENSOR_VP 1036 SENSOR_VN 1039 SD2 28 × SD3 29 × EN 9 AE1 HDH ANT3216LL00R2400A 1035 11 1035 100 23 100 102 102 102 104 104 104 1023 1025 14 / ; Programming Experimental × 34 105 × 18 1012 × 20 1013 HUD RGB 17 +3.3V CAP2_NC SCL 35 1018 1019 ALRT 42 1021 C9 1uF GPI026 DAC 2 Ext. HUD (experimental) XTAL_N_NC 44 × GND Note: might only be able to provide up to 100mA? VBUS B VBUS ESP32-PICO-D4 Datasheet: "Pins 1016, 1017, 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." USB- 4 UD-USB+ 3 UD+ Touch GPI02 TOUCH1 2 J4 Touch GND Programming TP5 EN Q1 ADC + Reset User Switch Transistors **Breakouts** +3.3V CH9102F +5V TP2 1 2SC4617R BR GND SWITCH SW1 SW_SPST 2SC4617R BR 100 TP12 | 100 1035 O 1035 Microphones PDM (over i2S) Microphones Ext. 12S Microphones +3.3V MP23DB01HPTR GP1033 R2 GFI035 0R* IZS1_CLK Ŭ GND i2S1_Data GPI026 *Fit one resistor to select Left or Right Channel File: Power.kicad_sch

Compatible i2S Microphones: * SPH0645 * ICS-43434

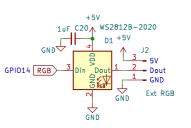
Compatible PDM Microphones:

* MP23DB01HPCT Digites: 497-MP23BD01HPCT-ND A\$2.75/10

* MP23DB01HPTR Mouser: 511-MP23DB01HPTR A\$2.62/10

* GMA3526H10-B26 LCSC: C498192 A\$1.33/10

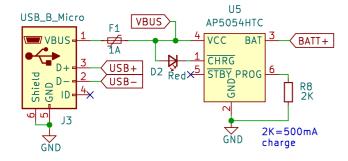
Visual Feedback RGB LEDs



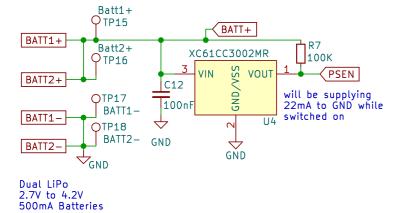
GPI0.4 16 TXS/GPI0.0 14 RXS/GPI0.1 13



USB In Sattery Charger



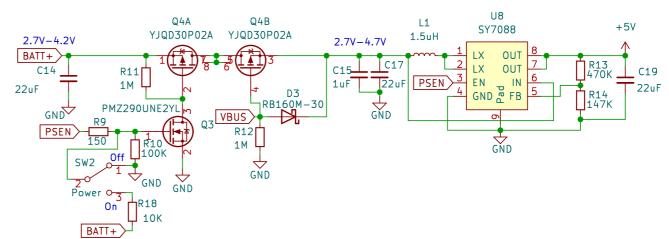
Battery Voltage Terminals Supervisor



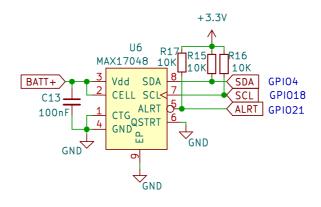
Power On/Off + Low Battery Isolation

Battery Bypass

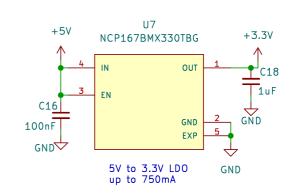
2.7V-4.7V to 5V Boost



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: 2022-09-22
 Rev: V0.4

 KiCad E.D.A. kicad 6.0.7-f9a2dced07~116~ubuntu22.04.1
 Id: 2/2