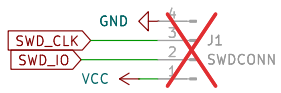
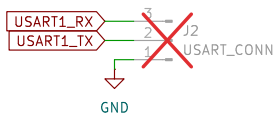
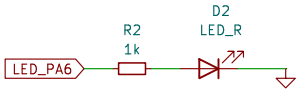
SWD PROG HEADER:



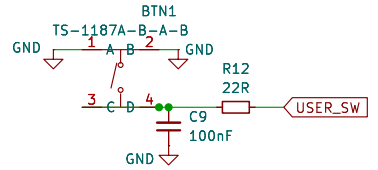
UART header (USART1):



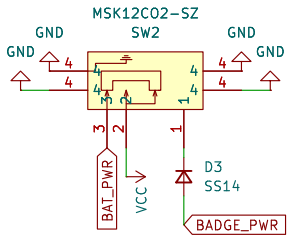
DEBUG LED:



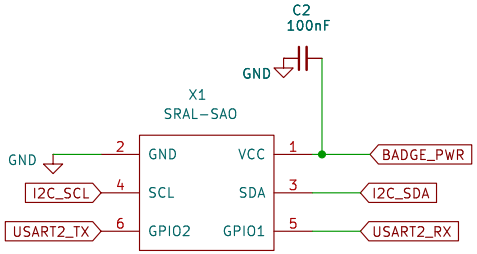
BTN:



PWR SWITCH:



SAO connector:

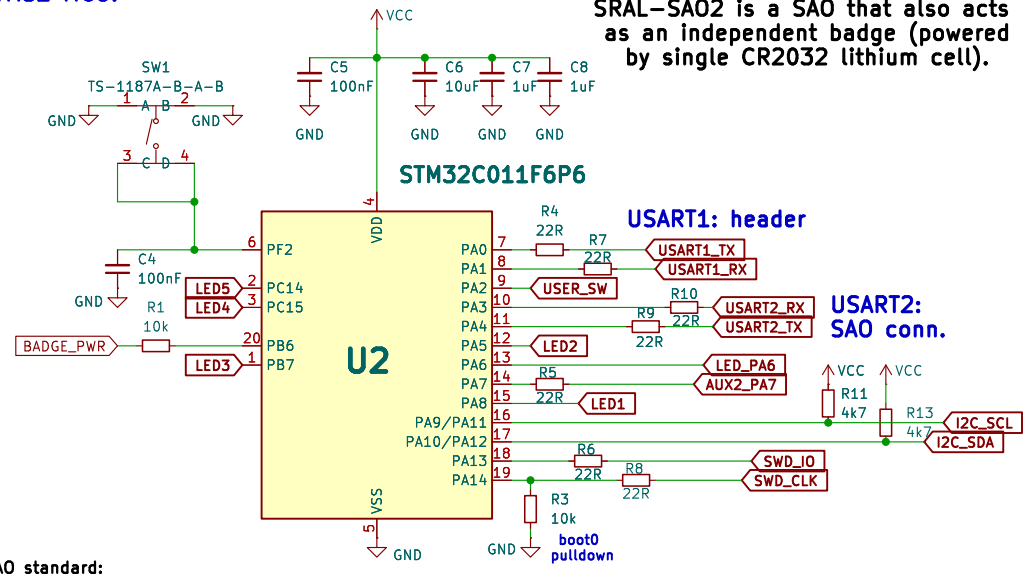


USART2 at SAO connector:
TX from SAO to BADGE
RX from BADGE to SAO

I2C:
4k7 pull-ups on this board.

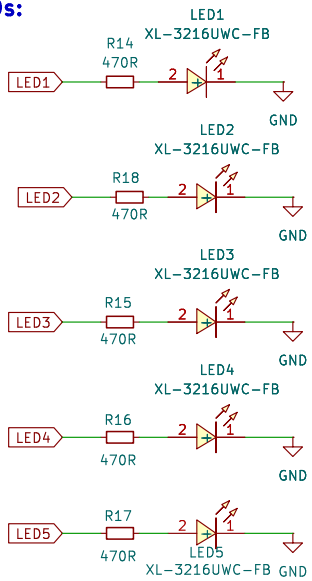
STM32 MCU:

SRAL-SAO2 is a SAO that also acts as an independent badge (powered by single CR2032 lithium cell).



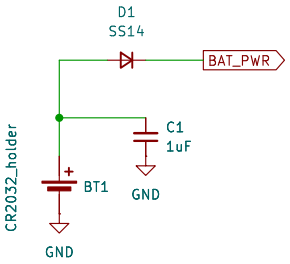
SAO standard:
https://badge.team/docs/standards/sao/
https://hackaday.io/project/52950-shitty-add-ons/log/159806-introducing-the-shitty-add-on-v169bis-standard

LEDs:

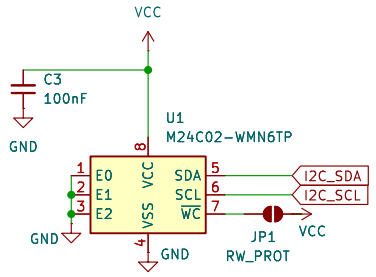


LED PWM channels (TIM1 adv. PWM):
LED1: PA8 TIM3_CH4 / TIM1_CH2N
LED2: PA5 TIM1_CH1
LED3: PB7 TIM3_CH1 / TIM1_CH4
LED4: PC15 TIM3_CH3
LED5: PC14 TIM3_CH2

CR2032 BATTERY:

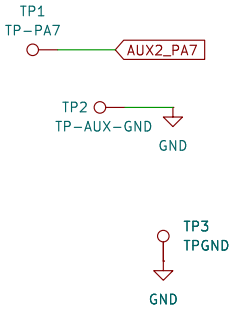


24C02 EEPROM:



EEPROM R/W protect:
short !WC to VCC

TEST PADS:



HOLES:

SRAL-SAO2, rev. B

by Lasse OH3HZB, review & comments by Ismo OH2FTG

Sheet: /
File: SRAL-SAO2.kicad_sch

Title: SRAL-SAO2

Size: A4	Date:	Rev: B
KiCad E.D.A. 9.0.6		Id: 1/1