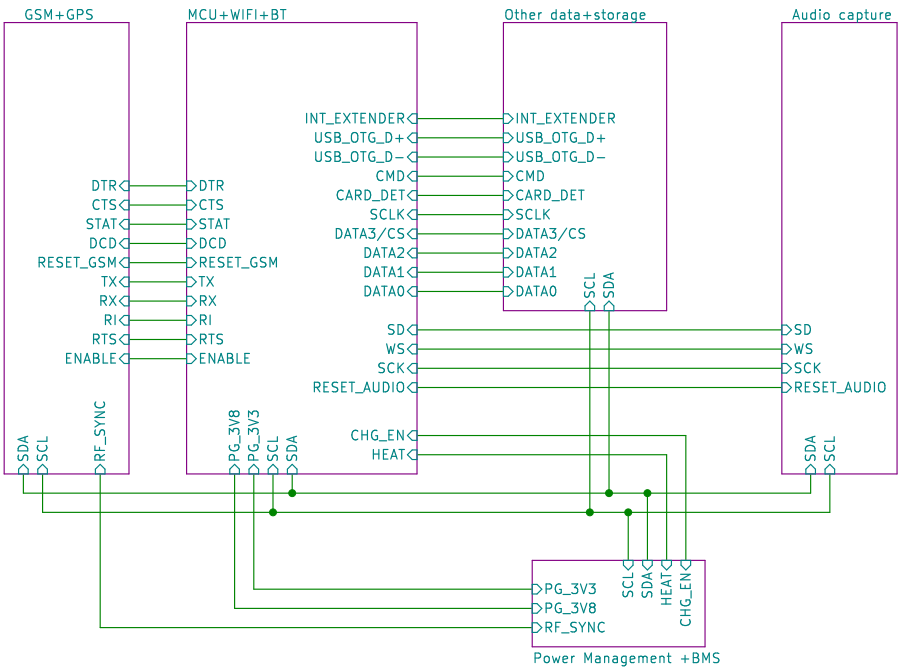
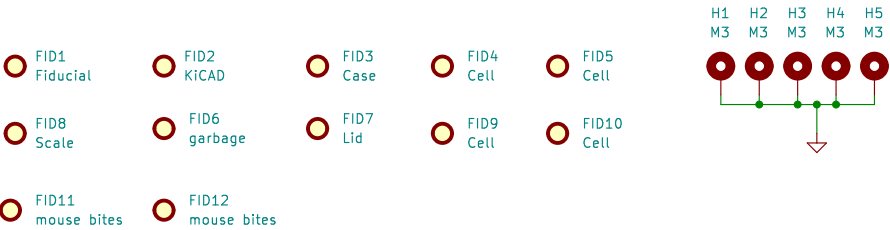


All SMD caps ceramic are 0603 16V X7R or better unless other notes are made  
All SMD resistors are 0603  
Stack up:  
4 layer FR4 sig gnd gnd+sig sig  
Delata(T) aimed for is 20C or less

I2C ADRESSES	
BME280	0x76
TLV320ADC3100	0x30
TCA9554A	0x21
INA3221	0x40
TCA9545APWR	0x20
MAX11601	0x64
MMA8452	= 0x1C



## CASE+ GRAPHICS + MECHANICAL



Layout by: Kecs Robert Alfred  
Verified by: Kecs Robert Alfred  
Designed by: Kecs Robert Alfred

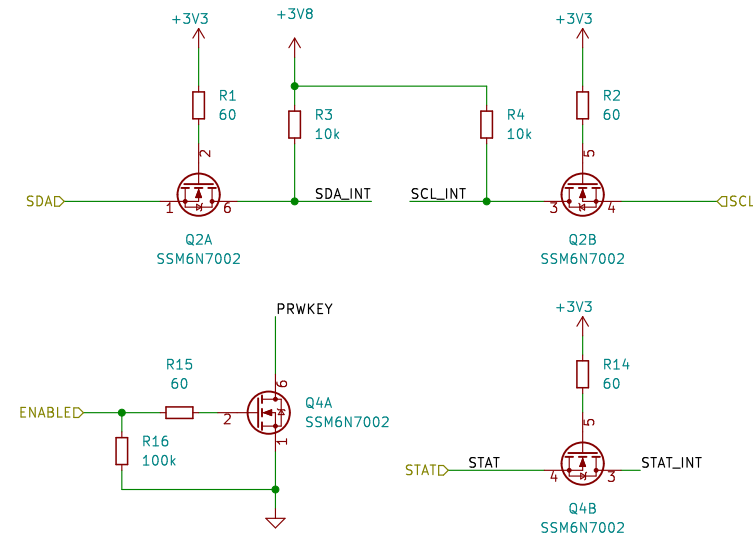
Sheet: /  
File: Bird\_detector\_V1.kicad\_sch

**Title: Bird Detection and Recognition System**

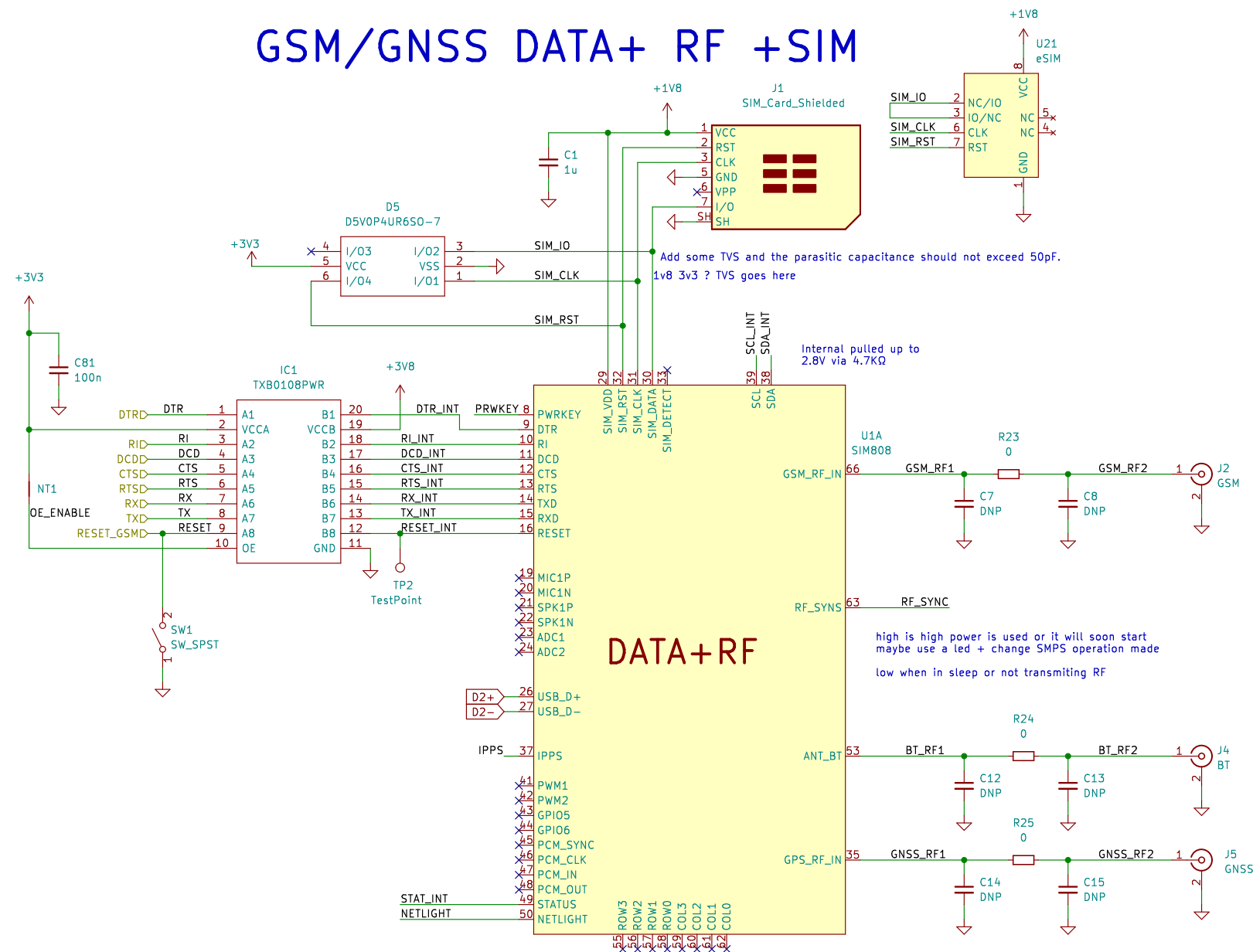
Size: A3 Date: 2022-11-23  
KiCad E.D.A. kicad (6.0.9)

Rev: V0.1  
Id: 1/8

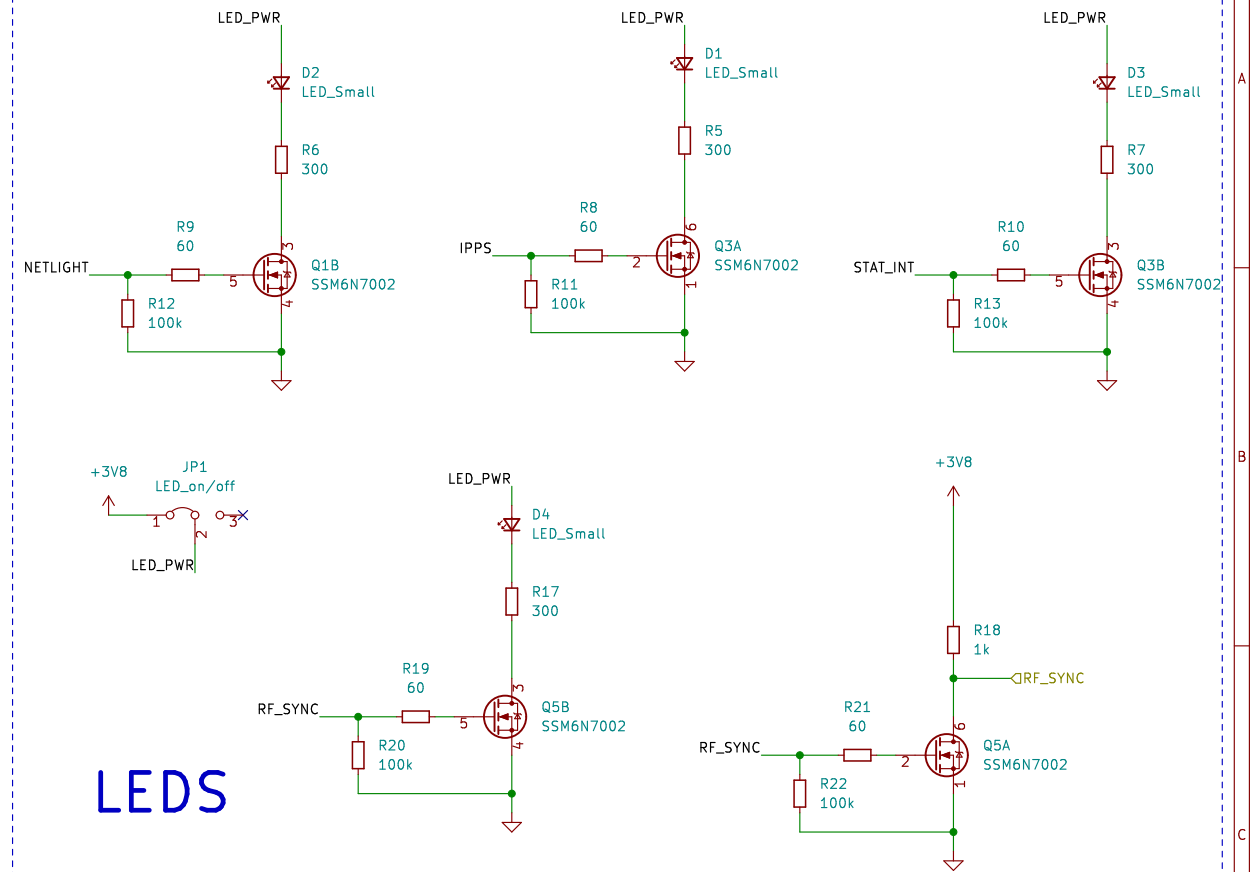
## LEVEL SHIFTERS



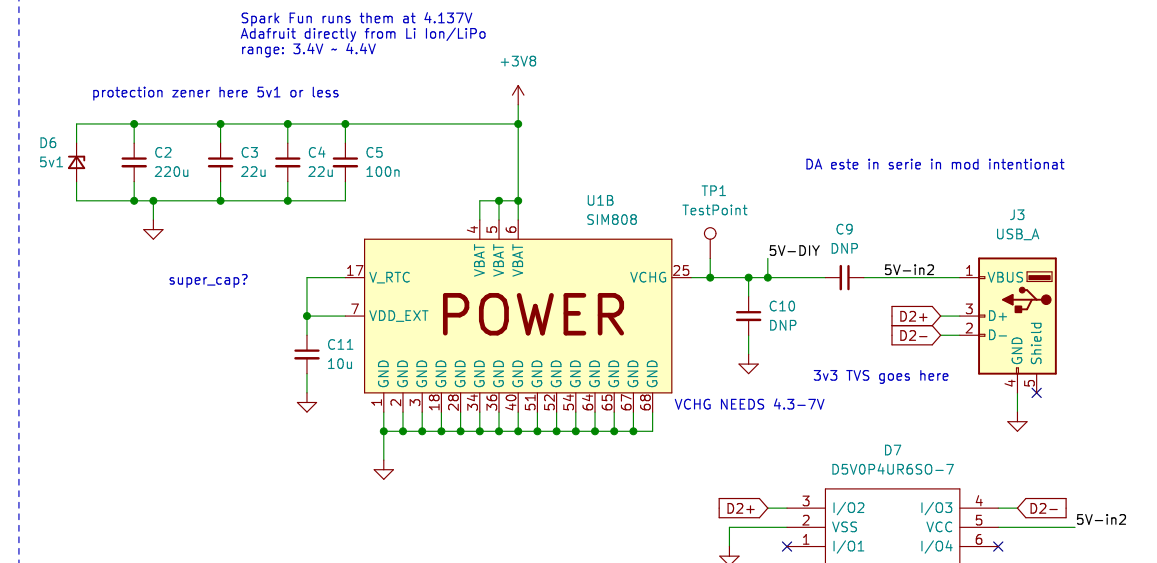
## GSM/GNSS DATA+ RF +SIM



## LEDS



## GNNS/GSM POWER



Layout by: Kec Robert Alfred  
Verified by: Kec Robert Alfred  
Designed by: Kec Robert Alfred

Sheet: /GSM+GPS/  
File: RF.kicad\_sch

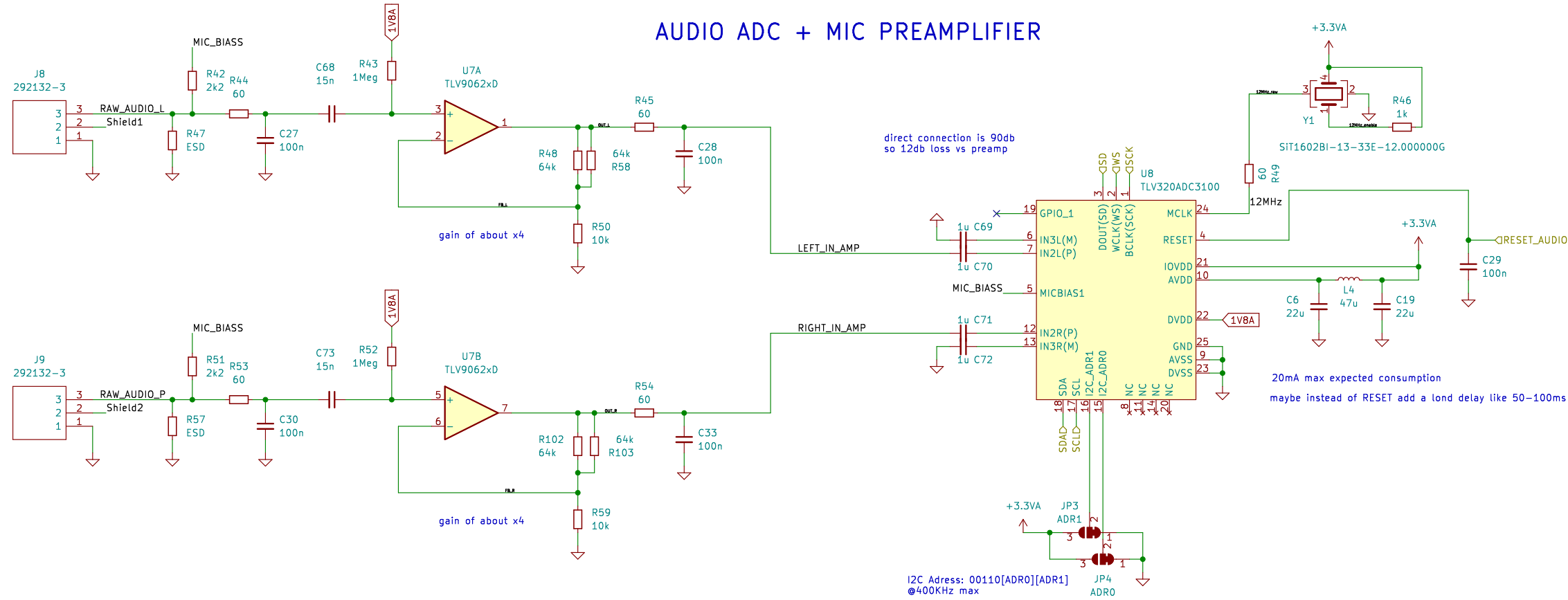
**Title: Bird Detection and Recognition System**

Size: A3 Date: 2022-11-23  
KiCad E.D.A. kicad (6.0.9)

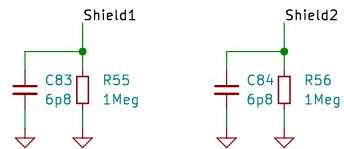
Rev: V0.1  
Id: 2/8



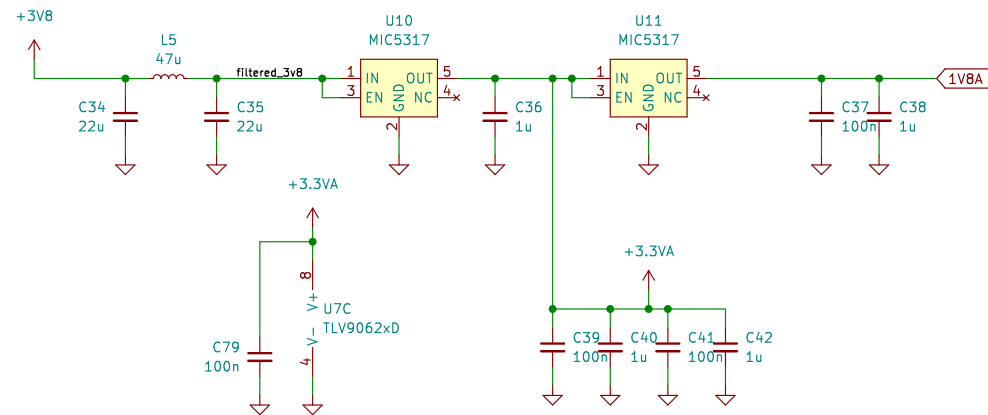
## AUDIO ADC + MIC PREAMPLIFIER



## Shield terminations



## Power



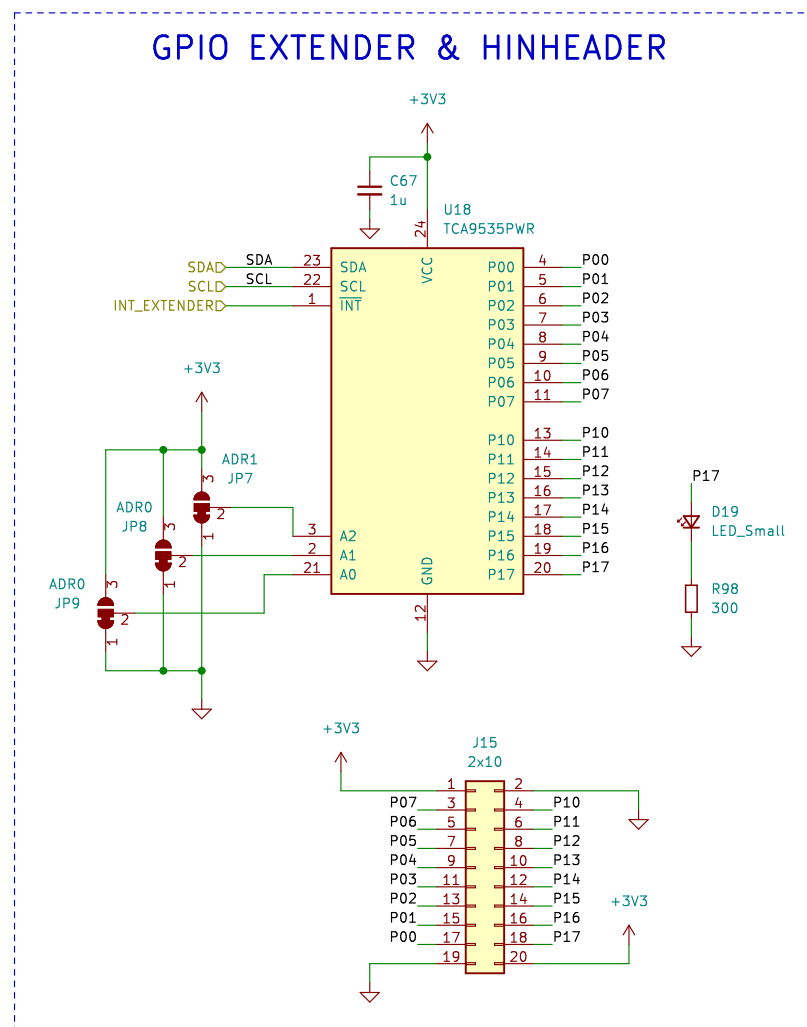
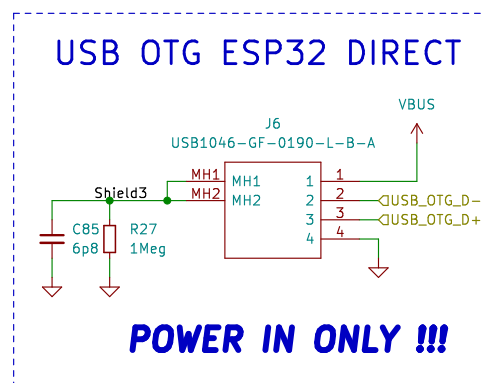
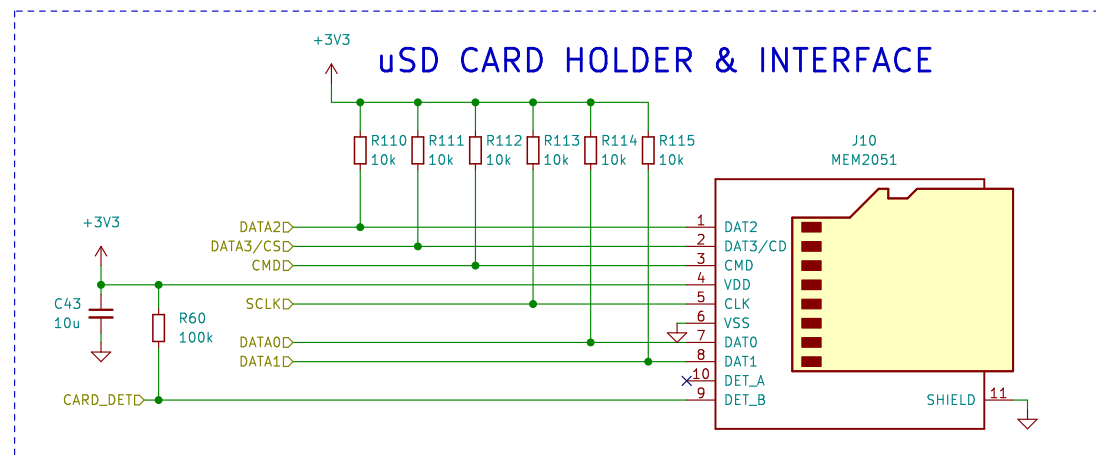
Layout by: Kecs Robert Alfred  
Verified by: Kecs Robert Alfred  
Designed by: Kecs Robert Alfred

Sheet: /Audio capture/  
File: Audio.kicad\_sch

**Title: Bird Detection and Recognition System**

Size: A3 Date: 2022-11-23  
KiCad E.D.A. kicad (6.0.9)

Rev: V0.1  
Id: 4/8



Layout by: Kecs Robert Alfred  
Verified by: Kecs Robert Alfred  
Designed by: Kecs Robert Alfred

Sheet: /Other data+storage/  
File: SDcard.kicad\_sch

**Title: Bird Detection and Recognition System**

Size: A3	Date: 2022-11-23
KiCad E.D.A. kicad (6.0.9)	

Rev: V0.1  
Id: 5/8

