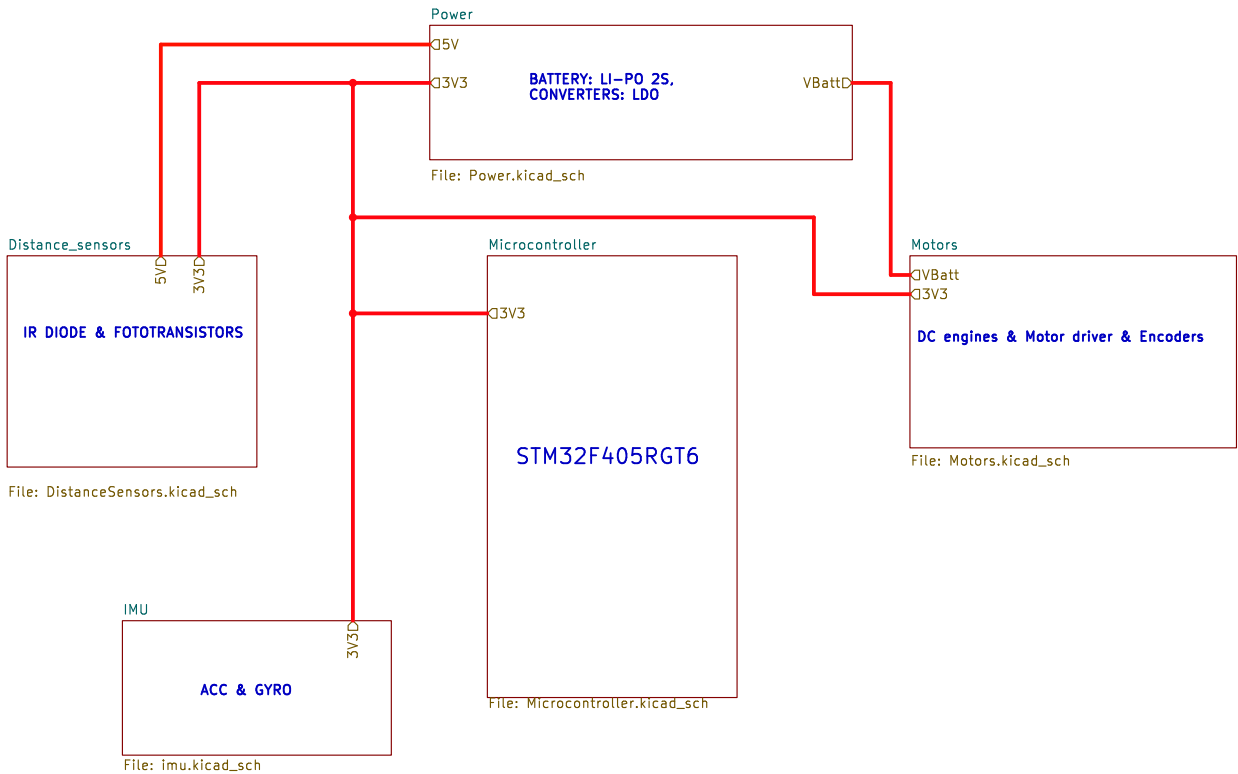


[1] Micromouse – Top level Schematic

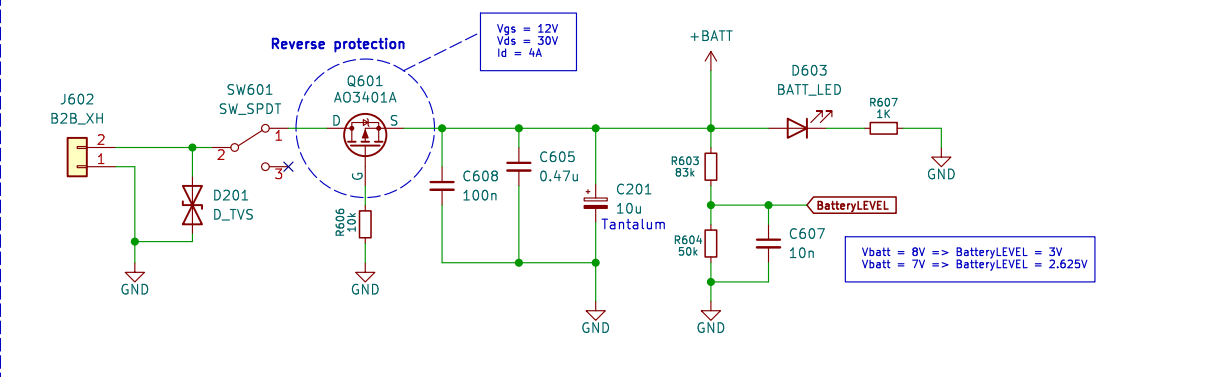


Hierarchical Sheet

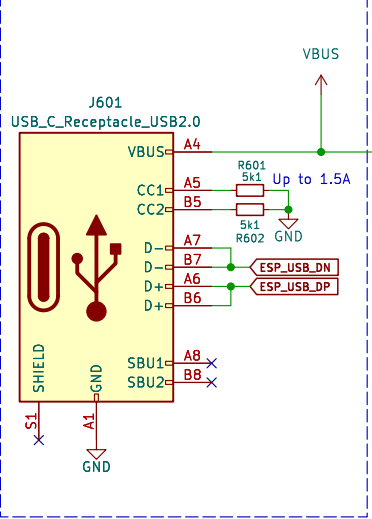
Sheet: /		
File: Micromouse.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 7.0.8		Id: 1/6

[2] POWER SUPPLY

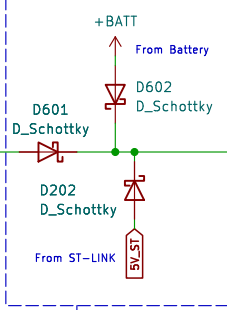
BATTERY LI PO 2S (?)



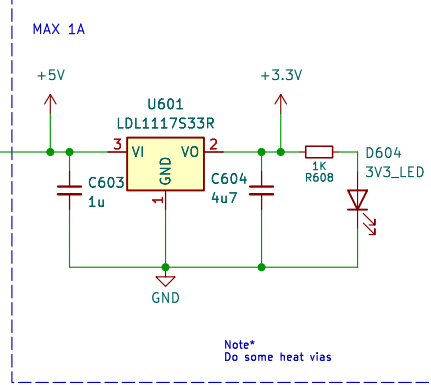
USB_C, ESP32 programmer & power supply for firmware testing



Reverse protection

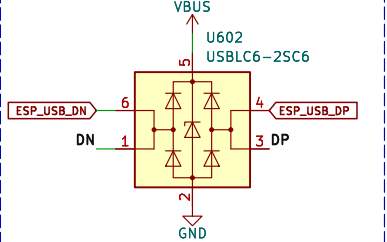


PWR only for digital part



If USB or ST-LINK is plugged and at the same time VBatt is provide, Vbus and ST_5V are blocked

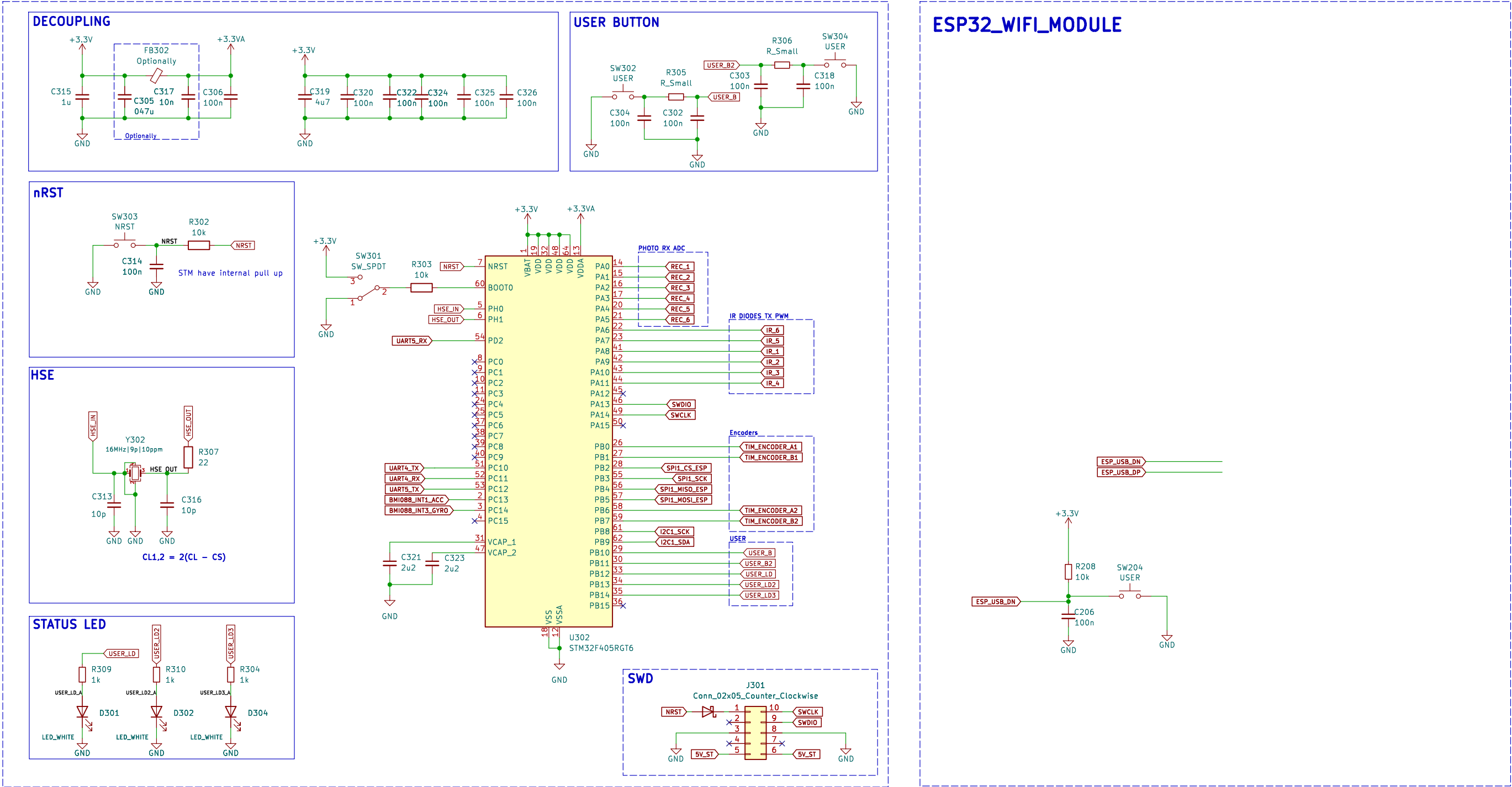
USB ESD



Drawn by: Adam Iwachów

Sheet: /Power/		
File: Power.kicad_sch		
Title:		
Size: User	Date:	Rev:
KiCad E.D.A.	kicad 7.0.8	Id: 2/6

[3] Microcontroller & WIFI module



Drawn by: Adam Iwachów

Sheet: /Microcontroller/
File: Microcontroller.kicad_sch

Title:

Size: A3
KiCad E.D.A. kicad 7.0.8

Date:

Rev:

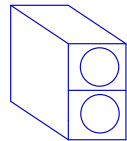
Id: 3/6

D

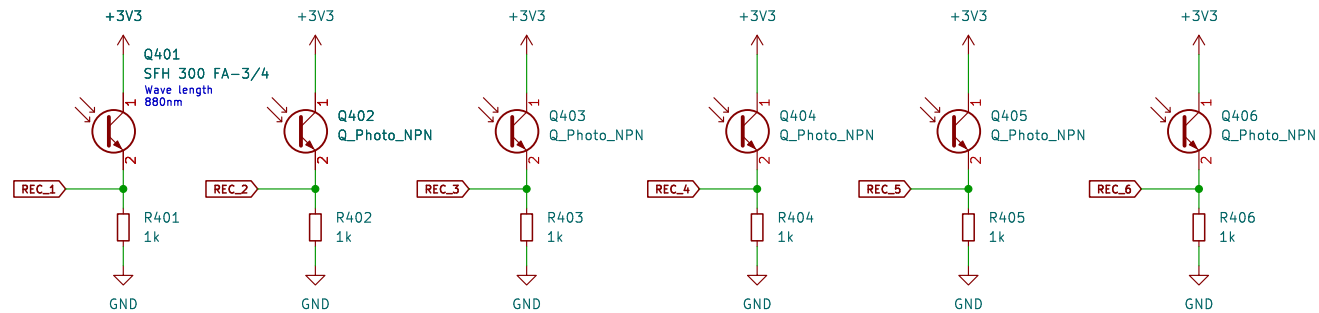


Rev:
Id: 4/6

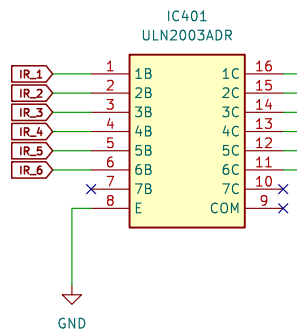
[5] IR RECEIVERS & EMITTERS



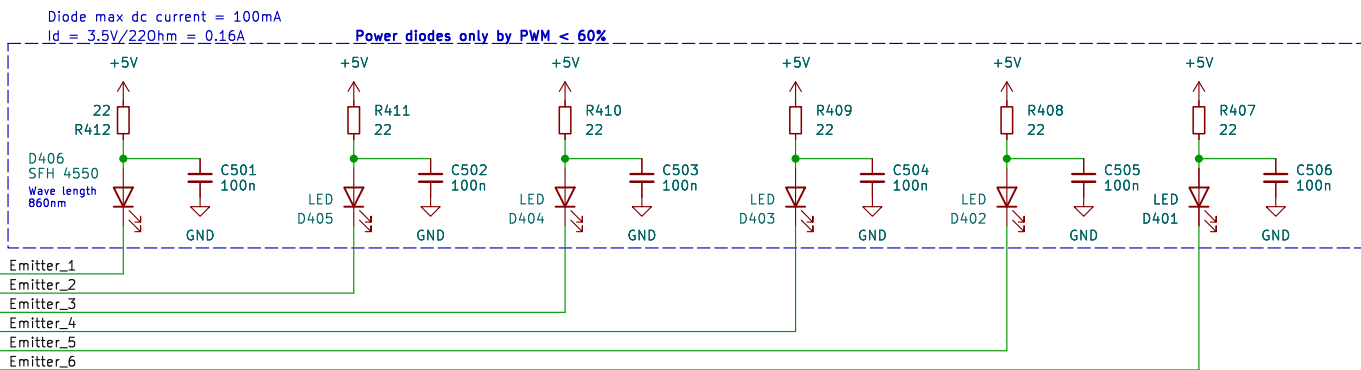
IR & Photo placed
in one case



Darlington array



up to 500mA per channel



Drawn by: Adam Iwachów

Sheet: /Distance_sensors/
File: DistanceSensors.kicad_sch

Title:

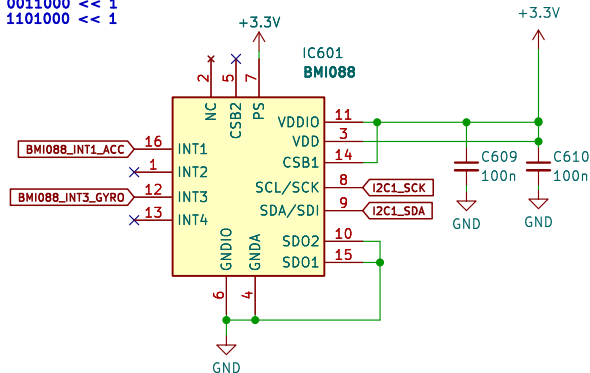
Size: A4
KiCad E.D.A. kicad 7.0.8

Date:

Rev:
Id: 5/6

[6] Accelerometer & gyroscope

I2C addr.
Acc: 0011000 << 1
Gyro: 1101000 << 1



BMI088

***Note**
BMI088 komunikuje się
przez I2C lub SPI,
wada spi w tym sensorze jest taka,
że potrzebne są dwa piny cs
jeden dla akcelometru,
drugi dla żyroskopu

Drawn by: Adam Iwachów

Sheet: /IMU/
File: imu.kicad_sch

Title:

Size: A5
KiCad E.D.A. kicad 7.0.8

Date:

Rev:

Id: 6/6