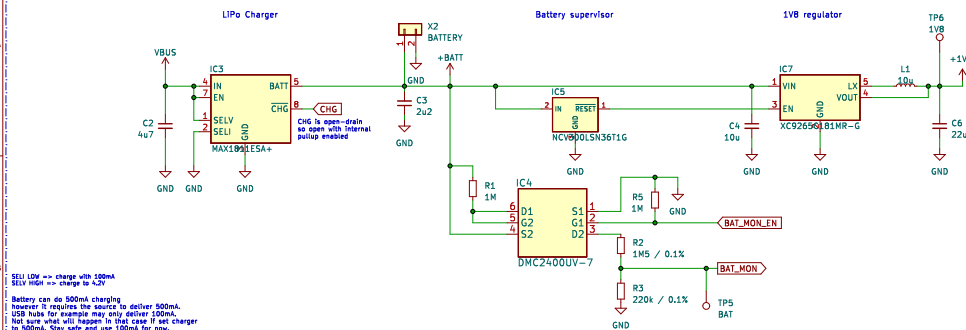
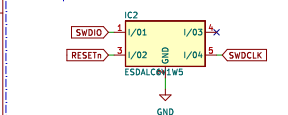


Power Management

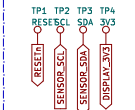


ESD protection

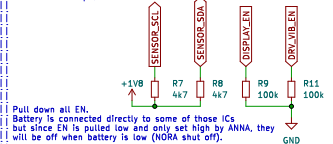


S/D pins will probably touch the skin, hence we need ESD protection. Those are not for 1.8V, but they will limit significantly and then internal nRF chip ESD protection handles the rest (if I understand correctly).

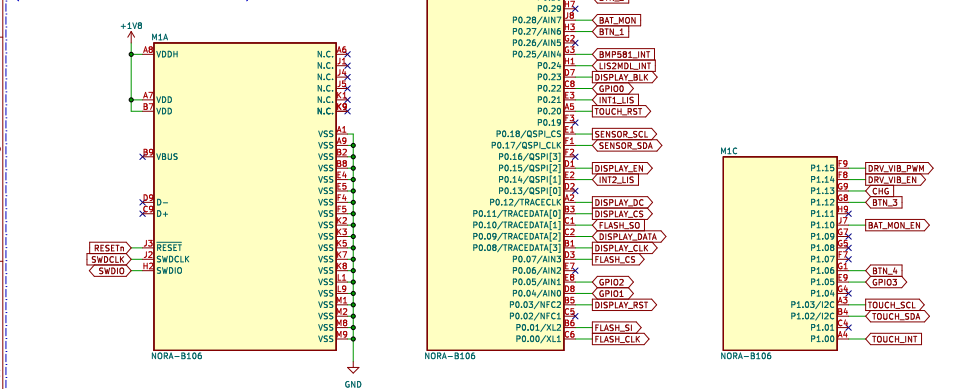
Test Points



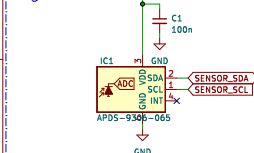
Pull-up/down resistors



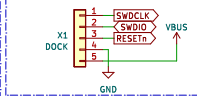
Microcontroller
(NORA-B106/nRF5340)



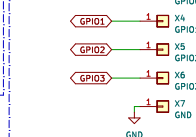
Light sensor $+1V8$



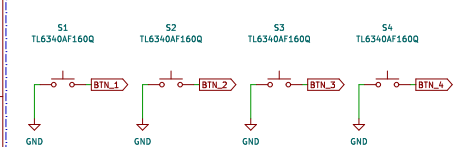
Dock connector



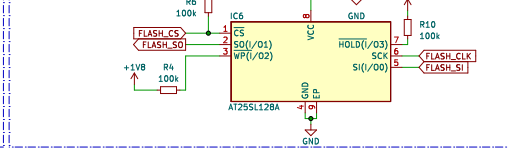
GPIO



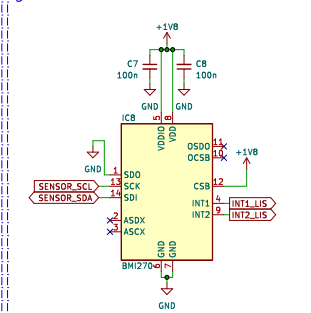
Buttons



External
16MB Flash

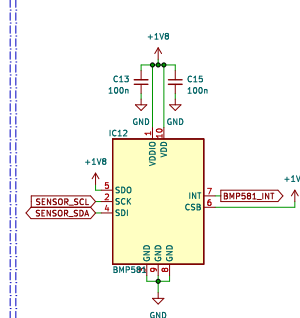


- IMU with step counter, gesture detection etc.

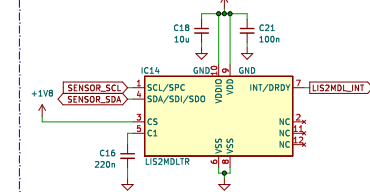


Careful with rotation, if not put as default, SW axis swap is needed
 Right eye placed undisturbed, hence this is adjusted in SW

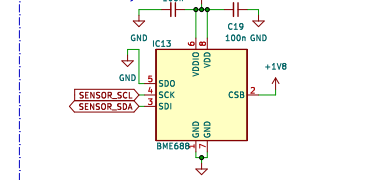
High accuracy pressure sensor



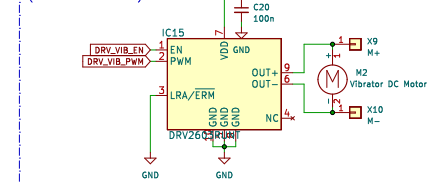
Magnetometer



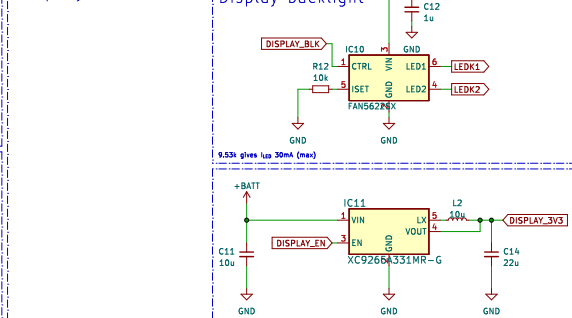
Gas, Pressure, Temperature
& Humidity



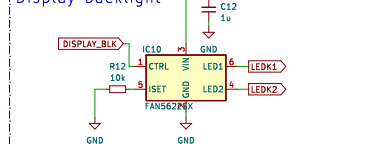
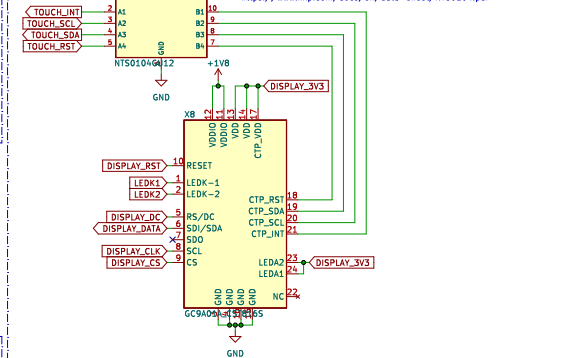
```
Vibration motor
(ERM Mode)
```



Display



```
i Display backlight
```

[illegible]

I2C addresses

BMI270	0x68
BMP581	0x46
BME688	0x76
LIS2MDLTR	0x1E
APDS-9306-065	0x52



github.com/jakkra/ZSWatch-HW

Sheet: /
File: ZSWatch.kicad_sch

Title: ZSWatch v2

Size: User	Date: 2023-08-19
KiCad E.D.A. kicad 7.0.2	

Rev: 3
Id: #/1