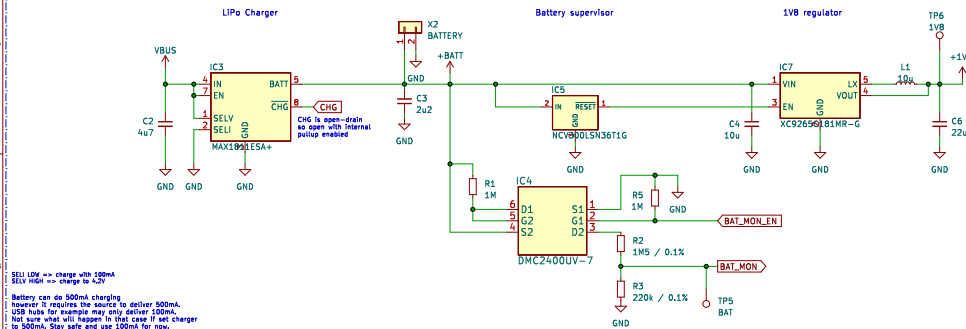
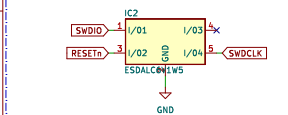


## Power Management

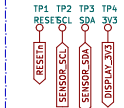


ESD protection

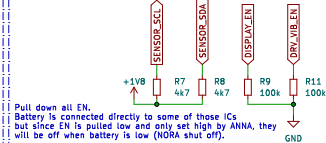


SWD pins will probably touch the skin, hence we need ESD protection. Those are not for 1.8V, but they will limit significantly and then internal NRF chip ESD protection handles the rest (if I understand correctly).

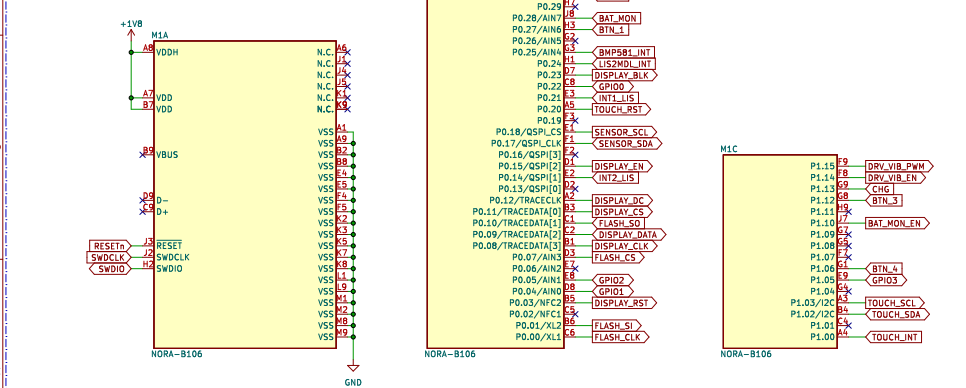
### Test Points



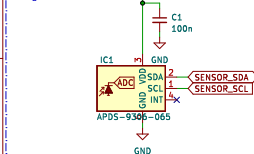
## Pull-up/down resistors



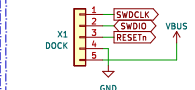
Microcontroller  
(NORA-B106/nRF5340)



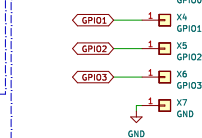
Light sensor  $+1V8$



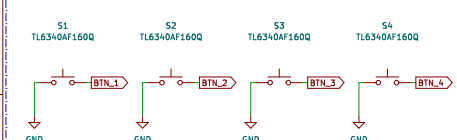
Dock connector



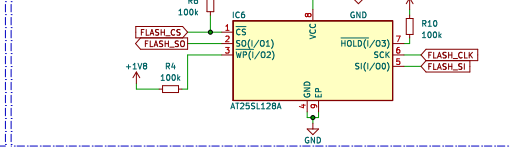
GPIO



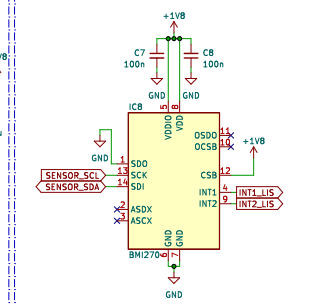
## Buttons



External  
16MB Flash

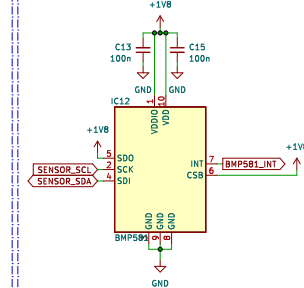


- IMU with step counter, gesture detection etc.

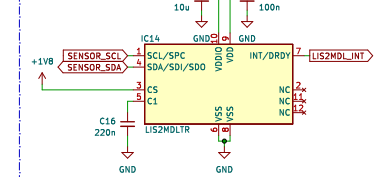


|| Careful with rotation, If not put as default, SW axis swap is needed  
|| Right now placed unsidedown, hence this is adjusted in SW.

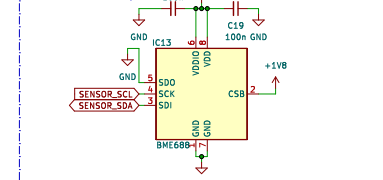
- High accuracy pressure sensor



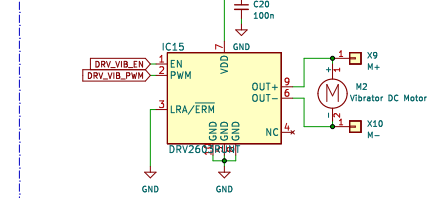
## Magnetometer



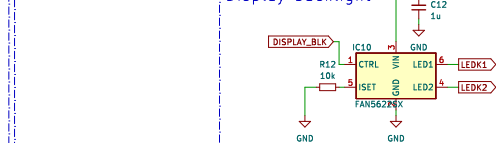
Gas, Pressure, Temperature  
& Humidity



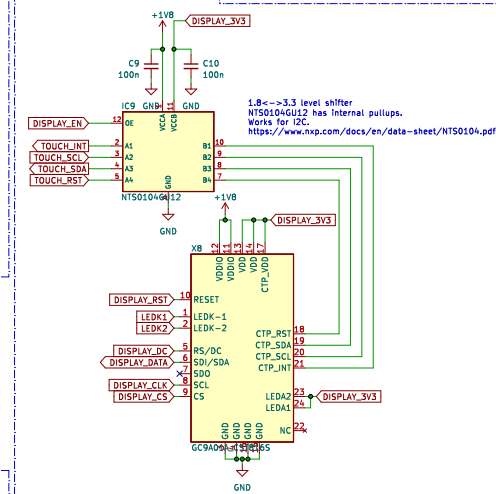
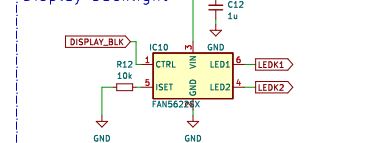
Vibration motor  
(ERM Mode)



## Display



i Display backlight



## I2C addresses

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

[github.com/jakkra/ZSWatch-HW](https://github.com/jakkra/ZSWatch-HW)

Sheet: /  
File: ZSWatch.kicad\_sch

**Title: ZSWatch v2**

Size: User	Date: 2023-09-25
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Rev: 3

Size: 68K	Date:
KiCad E.D.A. kicad 7.0.2	

Id: #/1