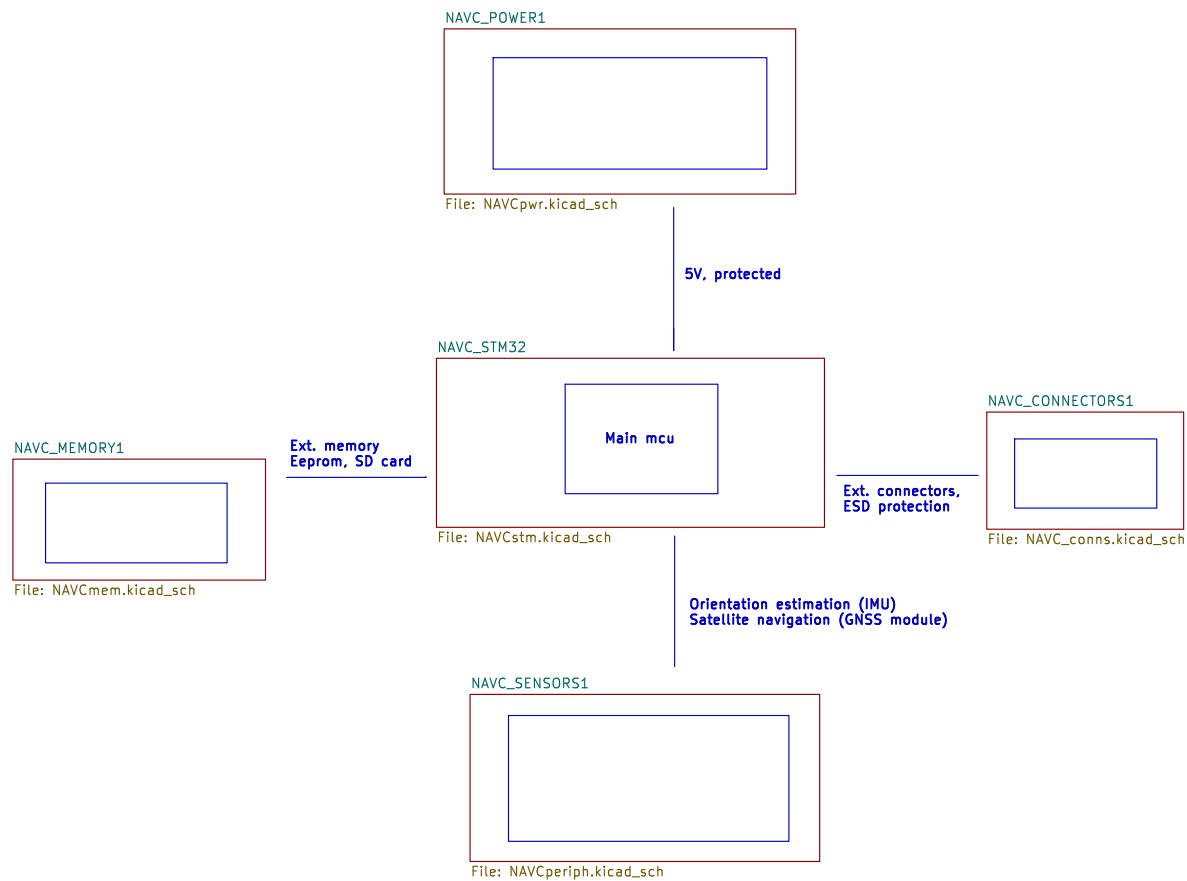


[1] Flight Controller Board – Top level Schematic



Adam Iwachów

Sheet: /
File: SYSTEM_KONTROLI_LOTU.kicad_sch

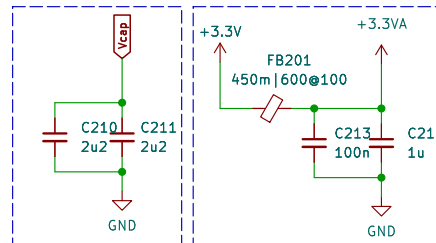
Title: NAVIGATION CONTROL BLOCK SCHEM

Size: A4 Date: 2023-09-30

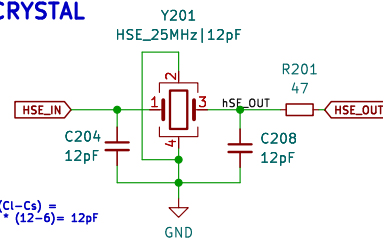
KiCad E.D.A. kicad 7.0.8

Rev:
Id: 1/6

MCU
1MB flash,
620KB Ram
250MHz



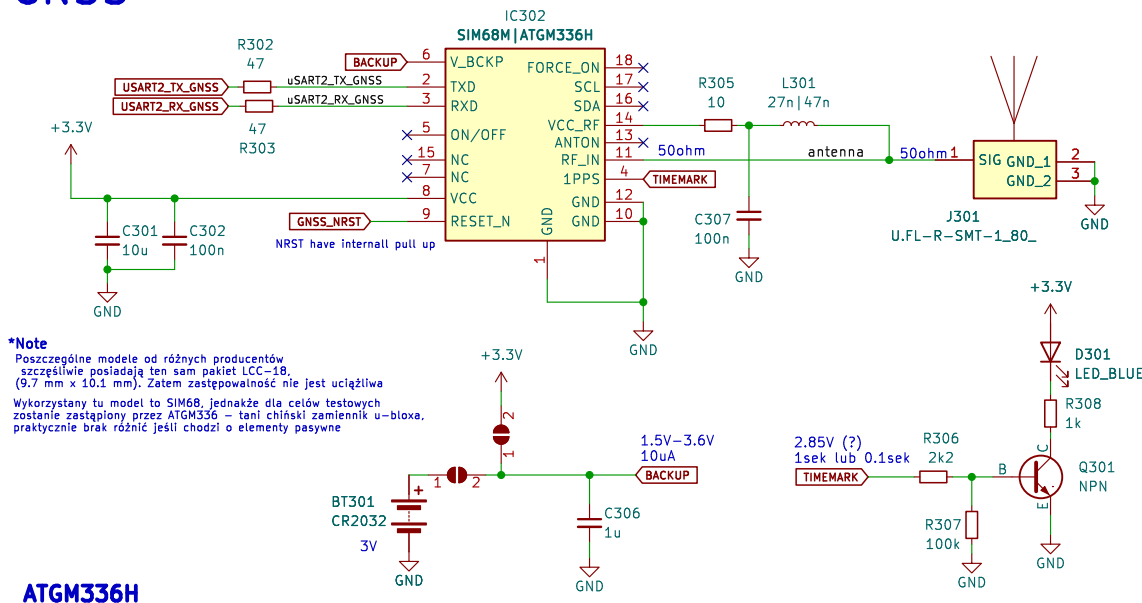
4MHz–50MHz



Rev:
Id: 2/6

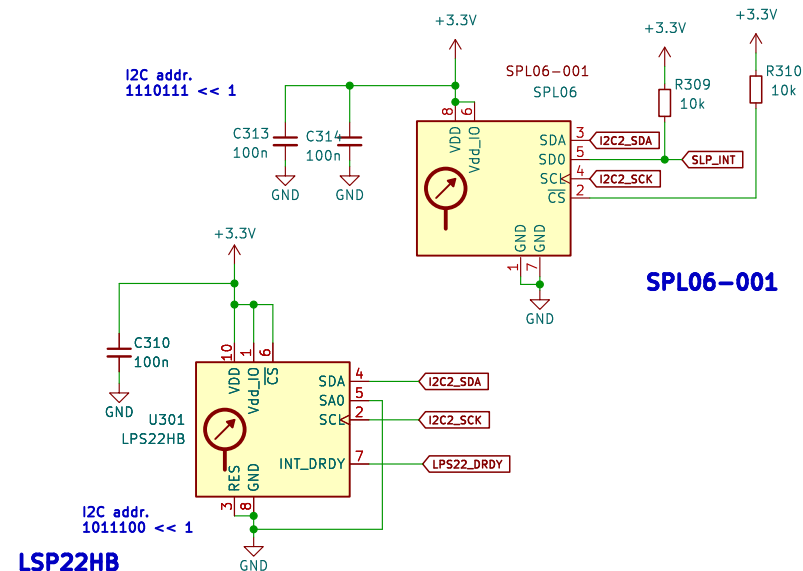
[3] Sensors

GNSS

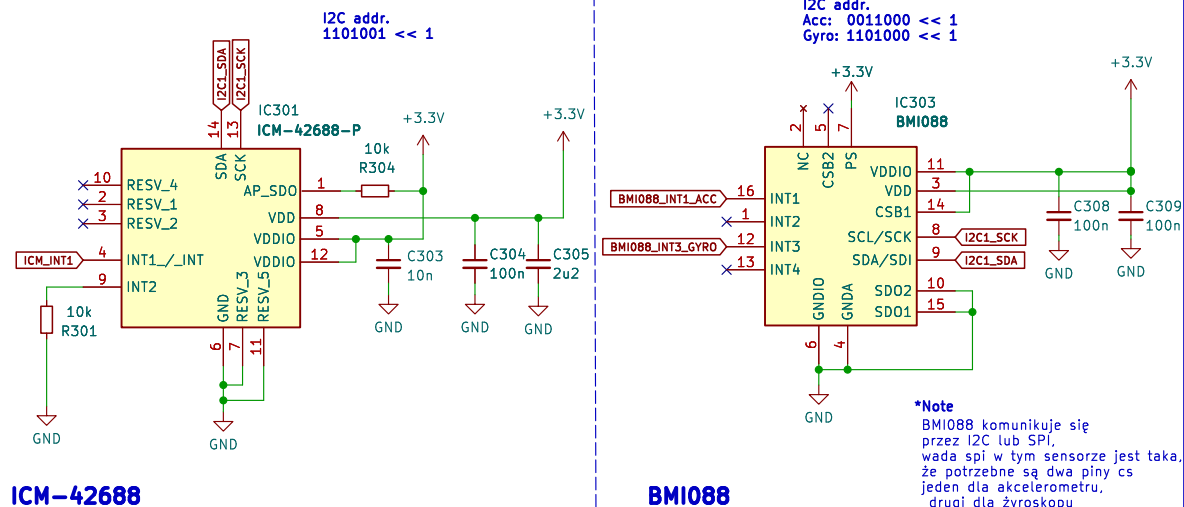


10 AXIS IMU

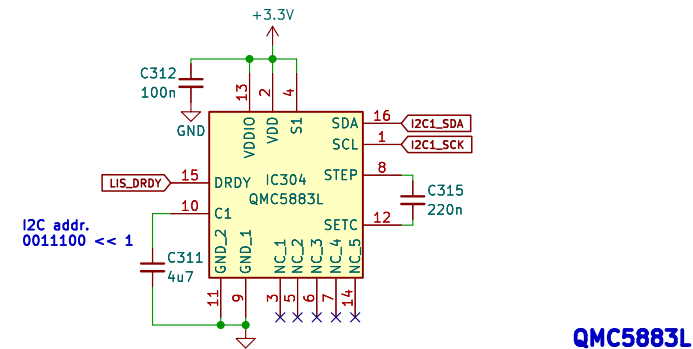
Press & temp



2x ACC & GYRO



Hall



Sheet: /NAVC_SENSORS1/
File: NAVCperiph.kicad_sch

Title: SENSORS & GNSS

Size: A4 Date: 2023-11-05

KiCad E.D.A. kicad 7.0.8

Rev:
Id: 7/6

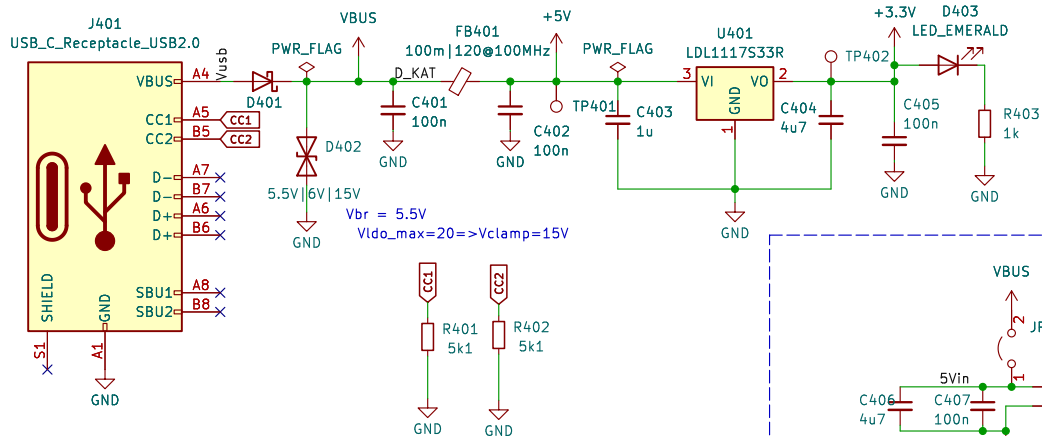
[4] PWR & PWR FILTERING

USB C CONN

LDO

*Note

Jako, że dla całego systemu będzie dedykowana płyta z dystrybucją energii, używam tutaj małowyrafinowanego LDO Up to 1.2A 0.35V dropout



Input PWR

Sheet: /NAVC_POWER1/
File: NAVCpwr.kicad_sch

Title: POWER

Size: A5

Date:

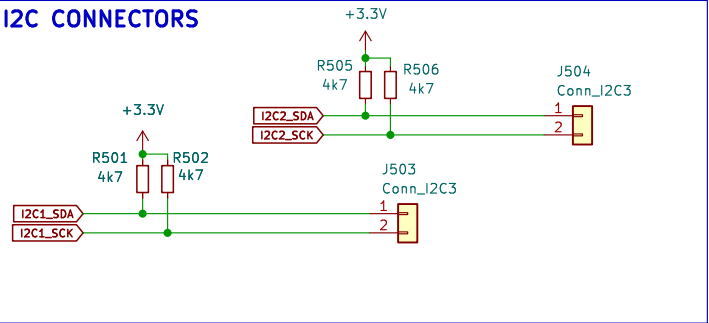
KiCad E.D.A.	kicad 7.0.8
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Rev:

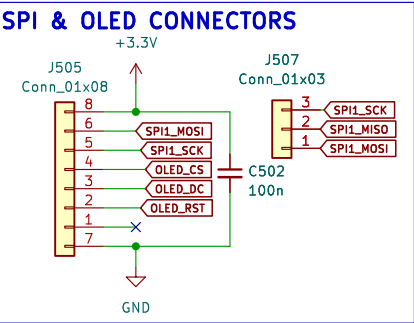
Id: 8/6

[5] Connectors

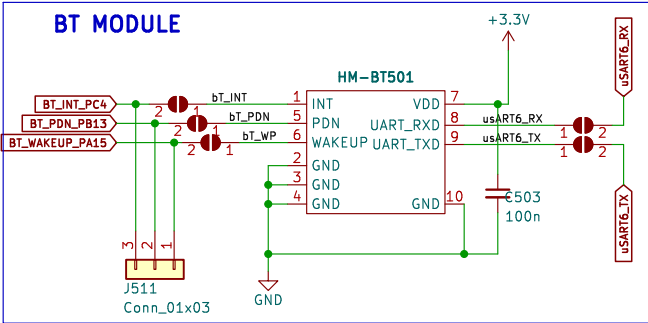
I2C CONNECTORS



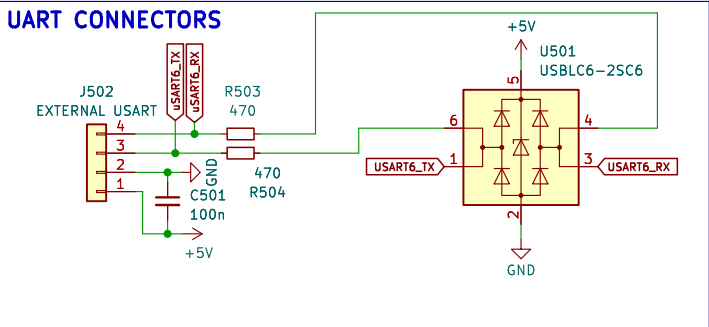
SPI & OLED CONNECTORS



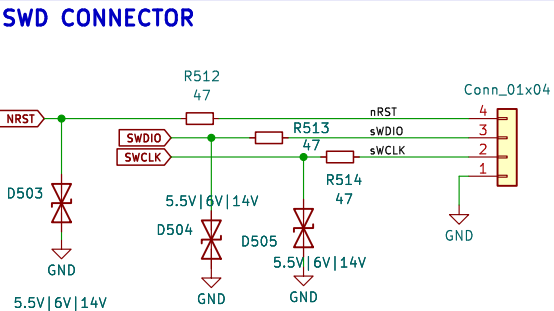
BT MODULE



UART CONNECTORS

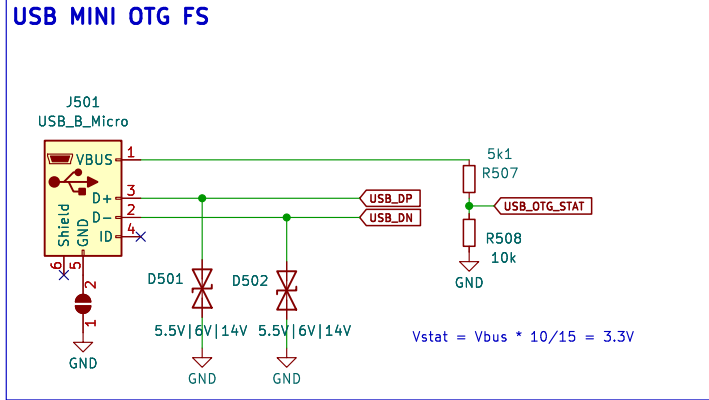


SWD CONNECTOR



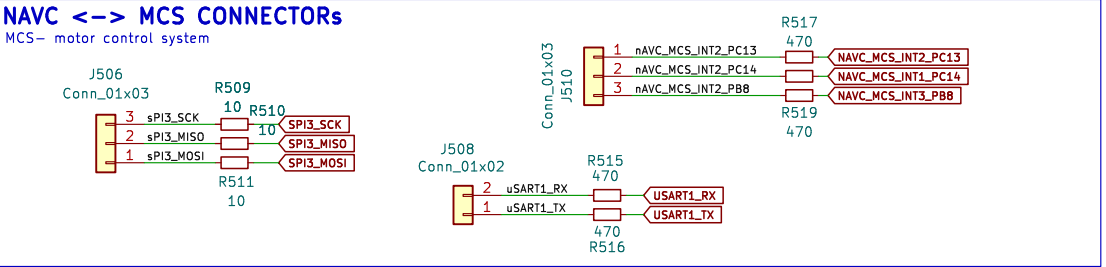
- H501 MountingHole
- H502 MountingHole
- H503 MountingHole
- H504 MountingHole_Pad

USB MINI OTG FS



NAVC <--> MCS CONNECTORS

MCS= motor control system



Sheet: /NAVC_CONNECTORS1/
File: NAVC_conns.kicad_sch

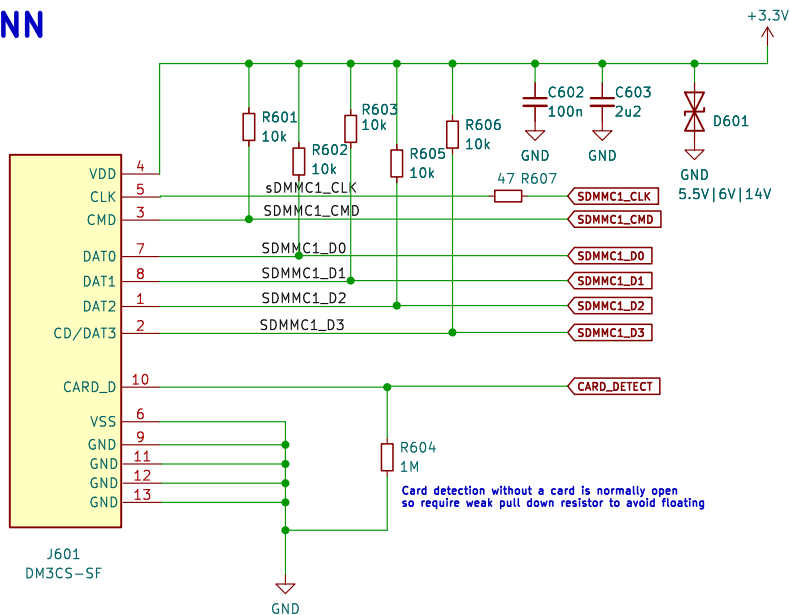
Title: CONNECTORS

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

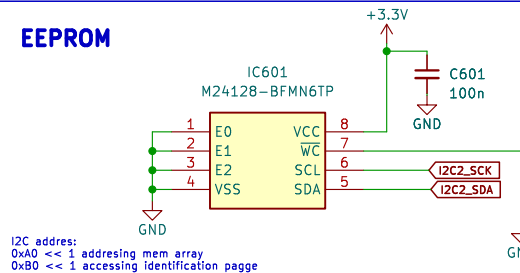
Date:
Rev:
Id: 9/6

SD CARD CONN

Zgodnie z specyfikacją kart sd wszystkie linie data oraz cmd powinny być podłączone przez rezystor 10k-100k do vcc



EEPROM



Sheet: /NAVC_MEMORY1/
 File: NAVCmem.kicad_sch

Title: EXTERNAL MEMORY

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

Rev:
 Id: 10/6