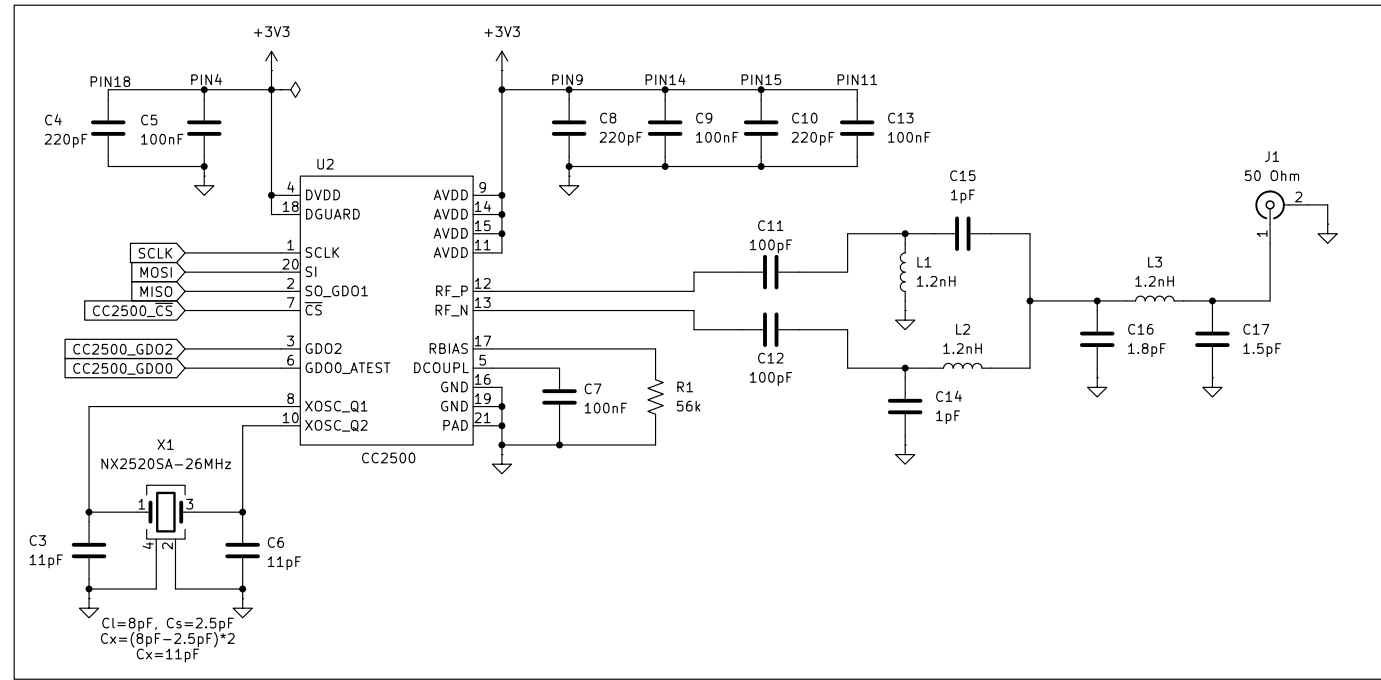
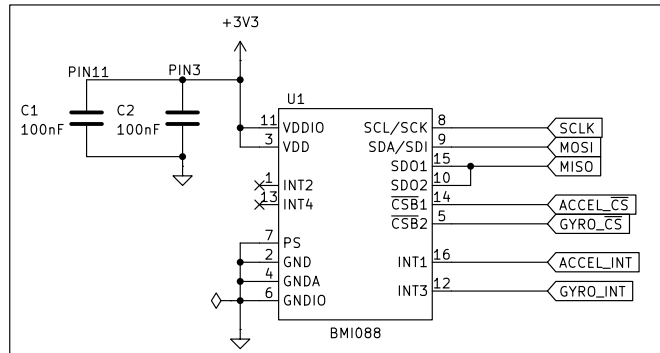


2.4GHz RF TRANSCEIVER



6-AXIS IMU (ACCELEROMETER + GYROSCOPE)



DRAWN BY: N. PHILIPENKO
GITHUB: /nikphillydev

REVIEWED BY:

Sheet: /SPI/
File: SPI.kicad_sch

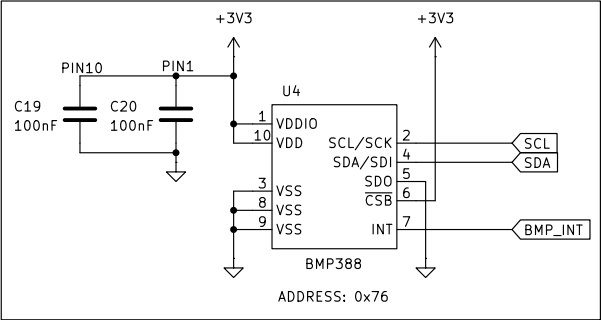
Title: SPI

Size: A4
Date: 2024-06-15

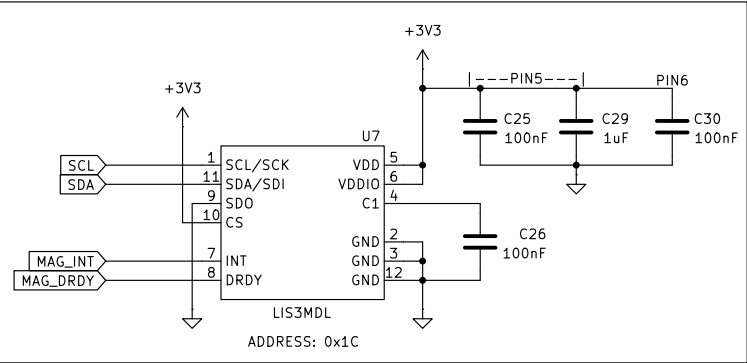
KiCad E.D.A. 8.0.3

Rev: A
Id: 2/5

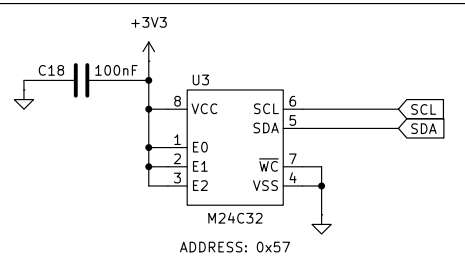
BAROMETRIC PRESSURE



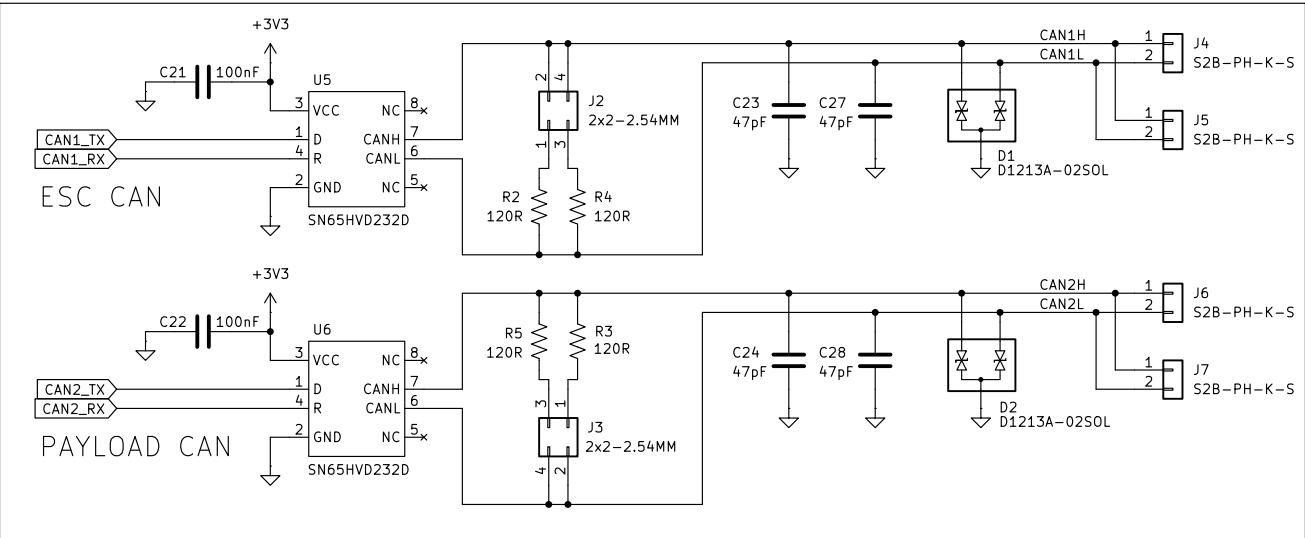
3-AXIS MAGNETOMETER



32Kbit (4Kbyte) EEPROM



CANBUS NETWORKS



DRAWN BY: N. PHILIPENKO
GITHUB: /nikphillydev

REVIEWED BY:

Sheet: /I2C + CANBUS/
File: I2C.kicad_sch

Title: I2C AND CANBUS

Size: A4 Date: 2024-06-15

KiCad E.D.A. 8.0.3

Rev: A

Id: 3/5

SEE LM2672 DATASHEET
FOR COMPONENT DERATING[illegible]

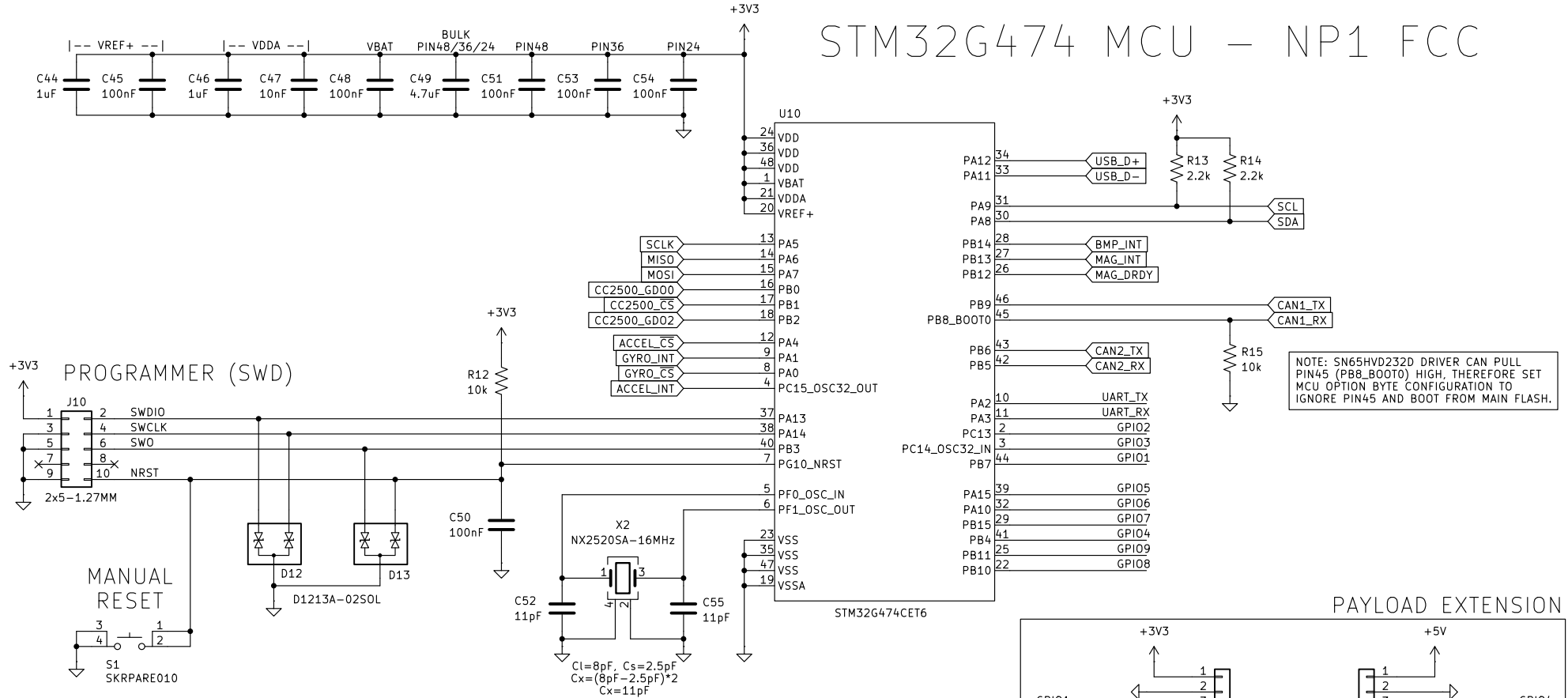
R6 ACTS AS A DAMPER FOR
LC RESONANT FREQUENCIES

MAIN	USB	OUT
0V	0V	0V
5V	0V	MAIN 5V
0V	5V	USB 5V
5V	5V	MAIN 5V

The diagram shows two LEDs, D10 and D11, connected to ground through resistors R10 (1k) and R11 (0R5) respectively. The LEDs are represented by diode symbols with arrows pointing away from them, indicating they are active or lit.

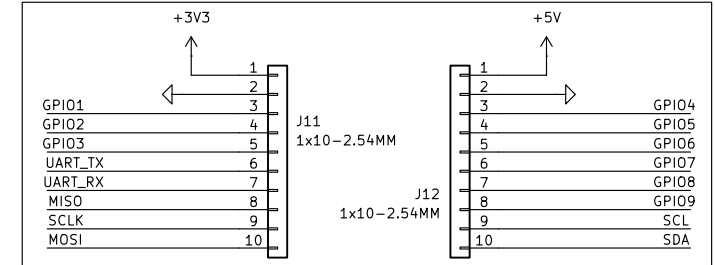
Rev: A
Id: 4/5

STM32G474 MCU – NP1 FCC

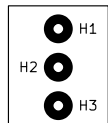


NOTE: SN65HVD232D DRIVER CAN PULL PIN45 (PB8_BOOT0) HIGH, THEREFORE SET MCU OPTION BYTE CONFIGURATION TO IGNORE PIN45 AND BOOT FROM MAIN FLASH.

PAYLOAD EXTENSION



MOUNTING HOLES



DRAWN BY: N. PHILIPENKO
GITHUB: /nikphillydev

REVIEWED BY:

Sheet: /MCU + PAYLOAD/
File: MCU.kicad_sch

Title: MCU AND PAYLOAD EXTENSION

Size: A4
Date: 2024-06-15
KiCad E.D.A. 8.0.3

Rev: A
Id: 5/5