

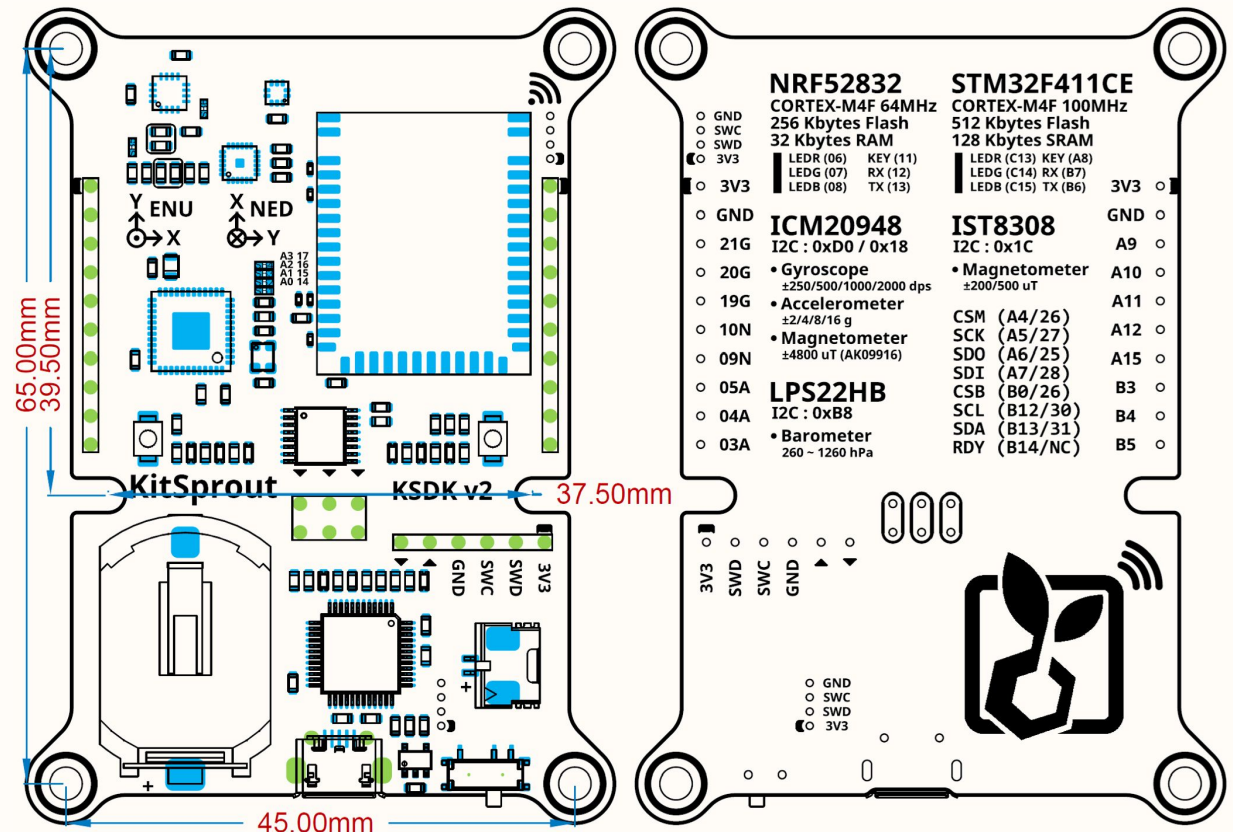


KitSprout KSDK

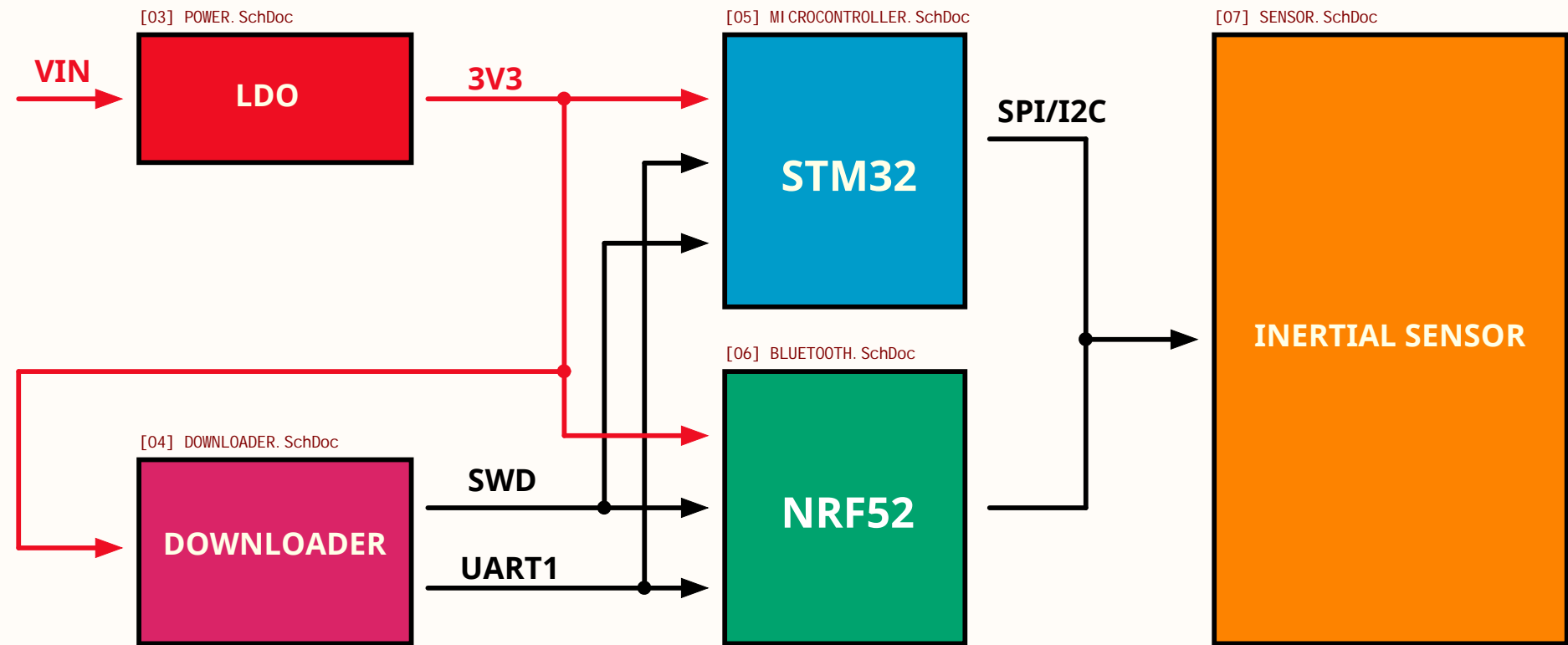
2017/11/25
Ver. v2.0A
Lib. v3.3

PAGE INDEX

| PAGE | INDEX |
|------|-----------------|
| 1 | COVER PAGE |
| 2 | BLOCK DIAGRAM |
| 3 | POWER |
| 4 | DOWNLOADER |
| 5 | MICROCONTROLLER |
| 6 | BLUETOOTH |
| 7 | SENSOR |
| 8 | |
| 9 | |
| 10 | |

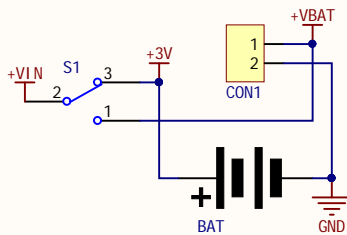


[02] BLOCK DIAGRAM.SchDoc

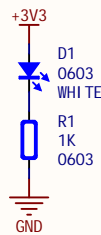


[03] POWER.SchDoc

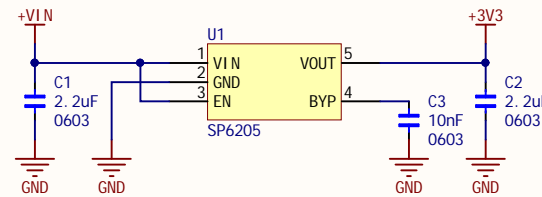
SWITCH



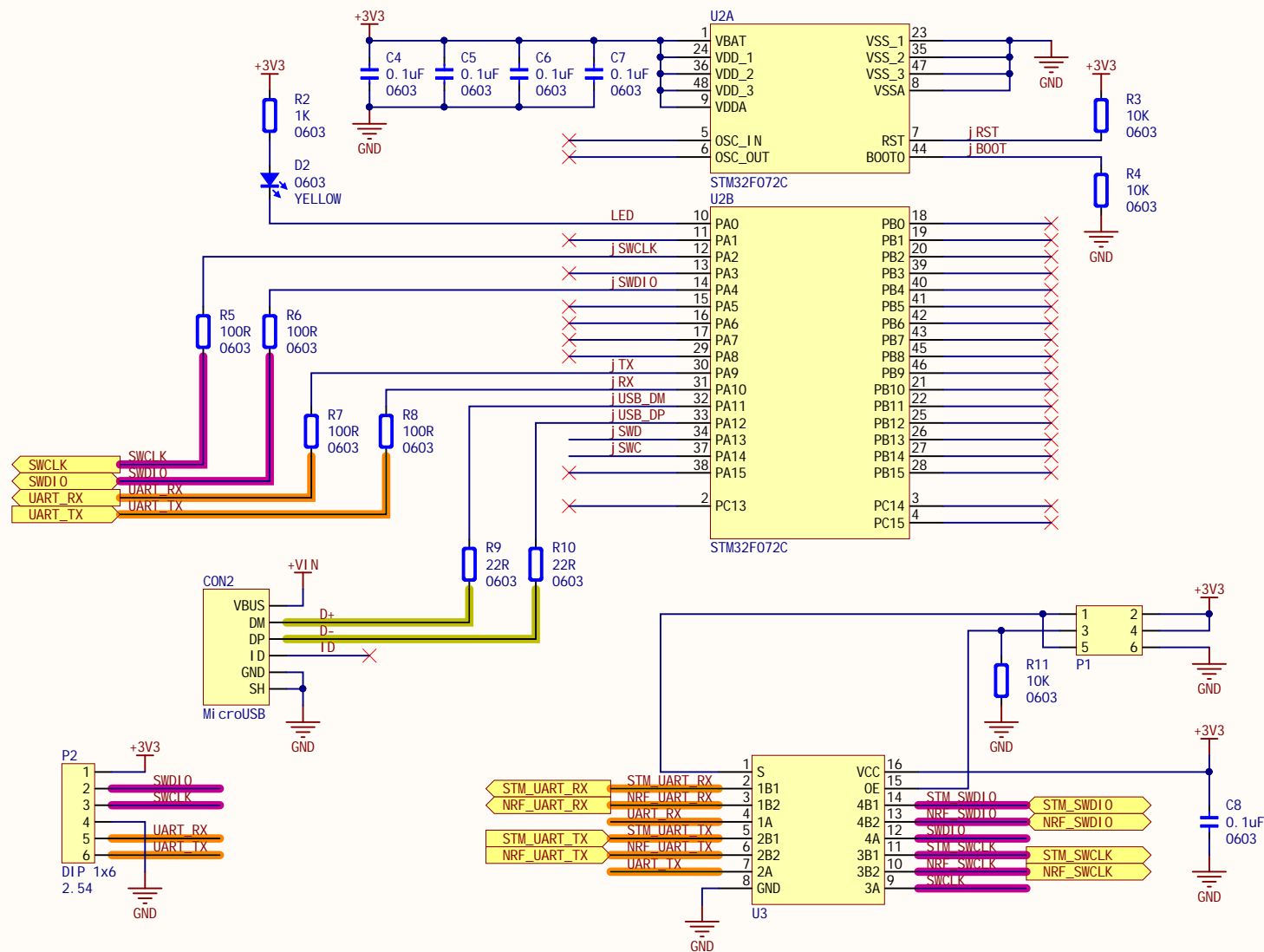
POWER LED



Low-Dropout Linear Regulator
VIN : 6V (MAX)
VOUT : 3V3 / 500mA

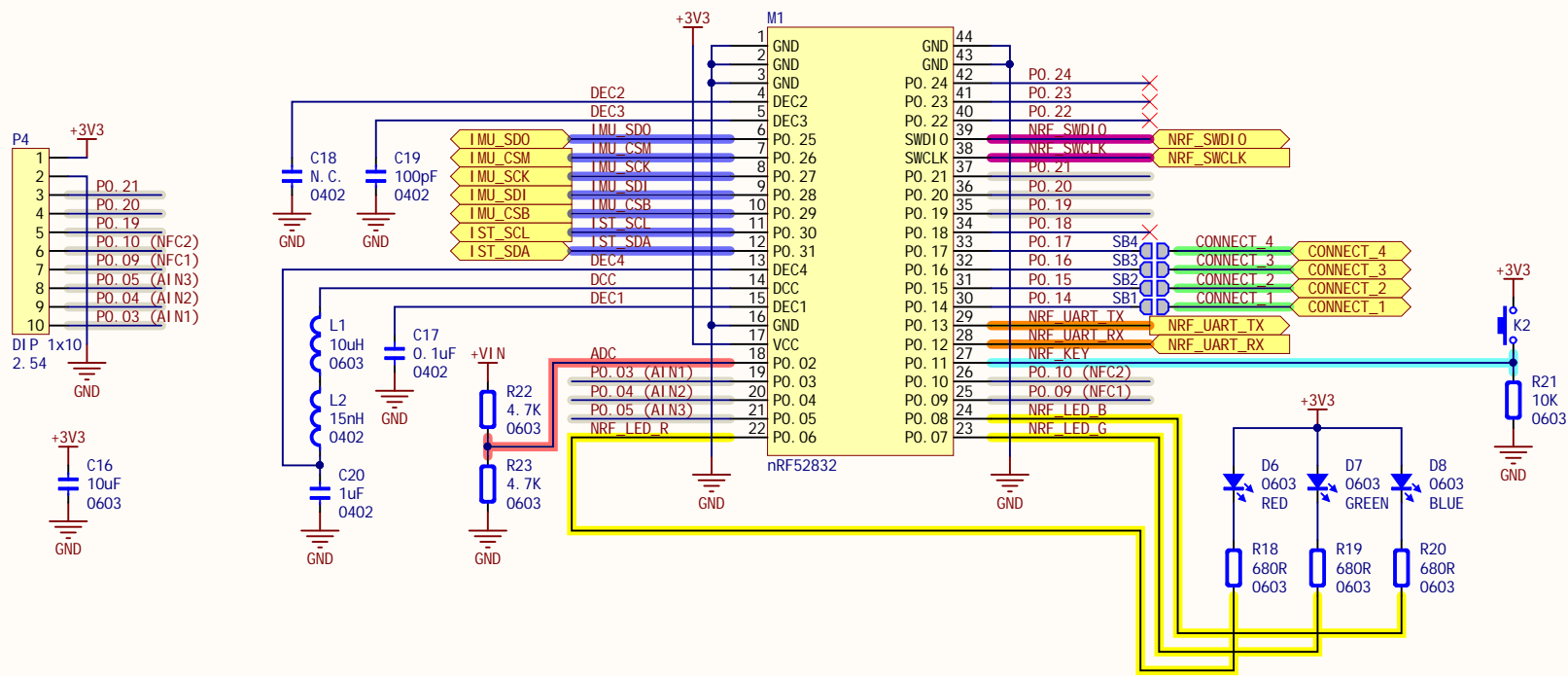


[04] DOWNLOADER.SchDoc



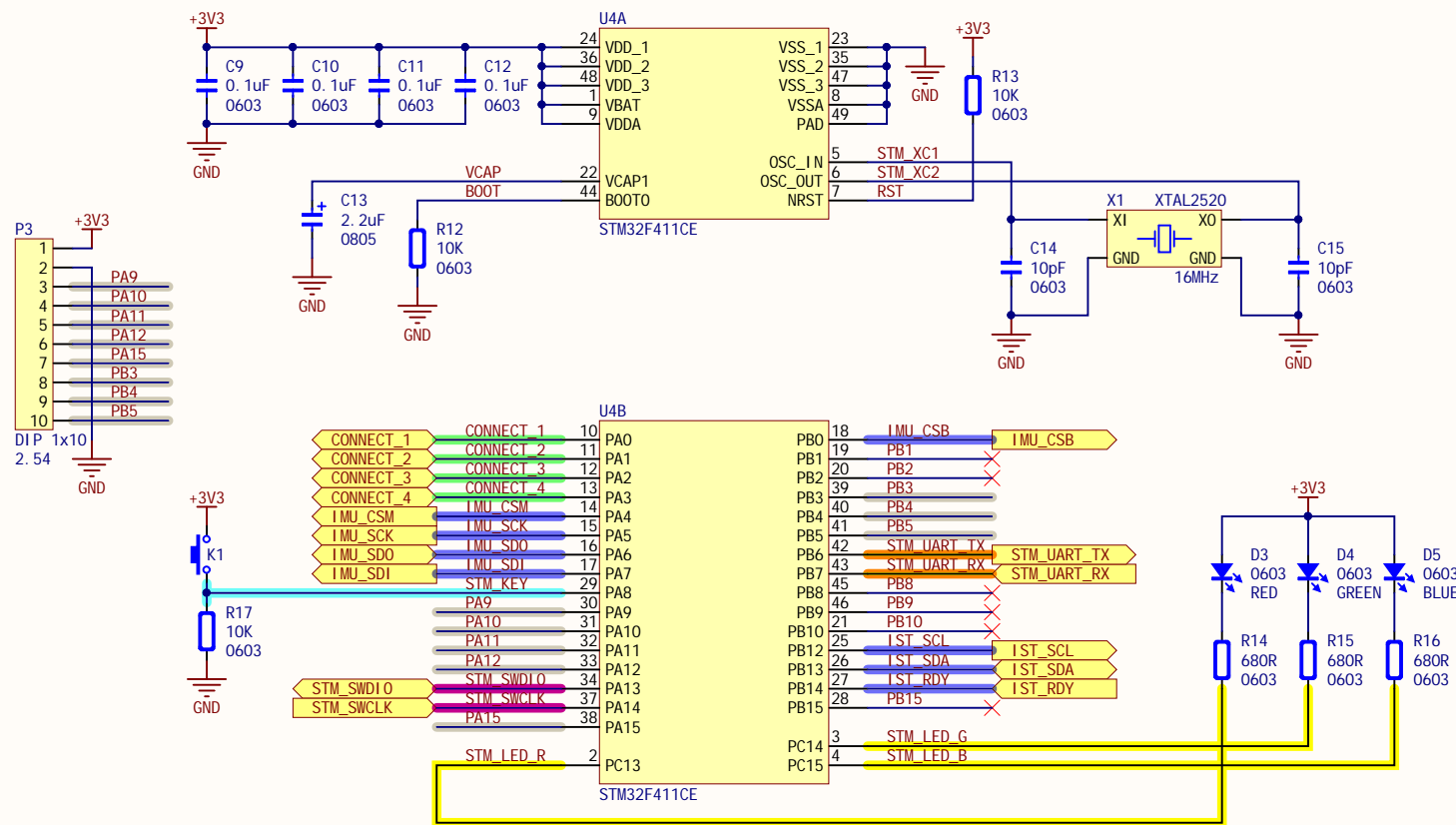
[06] BLUETOOTH.SchDoc

BLUETOOTH
NRF52832
CORTEX-M4F 64MHz



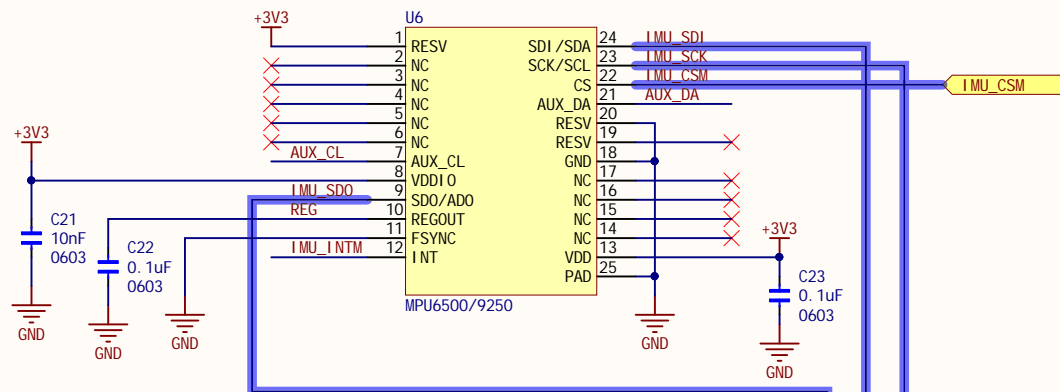
[05] MICROCONTROLLER.SchDoc

MI CROCONTROLLER
STM32F411CE
CORTEX-M4F 100MHz

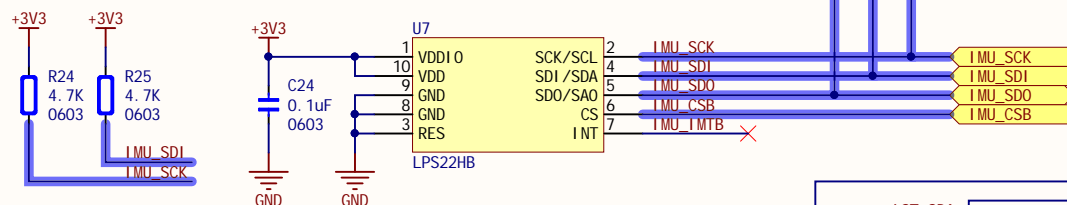


[07] SENSOR.SchDoc

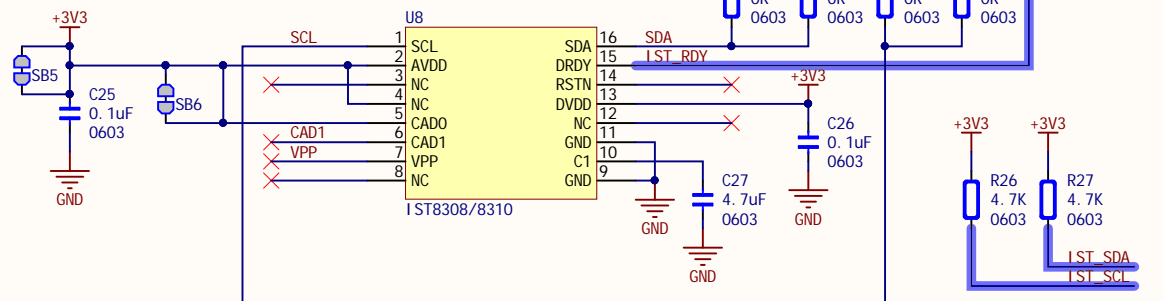
I CM20948 GYRO/ACCEL/MAG



LPS22HB BARO



I ST8308 MAG



• Gyroscope (I CM20948)
±250/500/1000/2000 dps

• Accelerometer (I CM20948)
±2/4/8/16 g

Device ID = 0xEA

I2C Address = 0xD0 (AD0 = 0)
= 0x18 (AD0 = 1)

• Magnetometer (AK09916)
±4800 uT

Device ID = 0x09

I2C Address = 0x18

• Magnetometer (IST8308)
±200/500 uT

Device ID = 0x08

I2C Address = 0x1A (CAD = [1, 0])

• Barometer (LPS22HB)
260-1260 hPa

Device ID = 0xB1

I2C Address = 0xB8 (SA0 = 0)
= 0xBA (SA0 = 1)