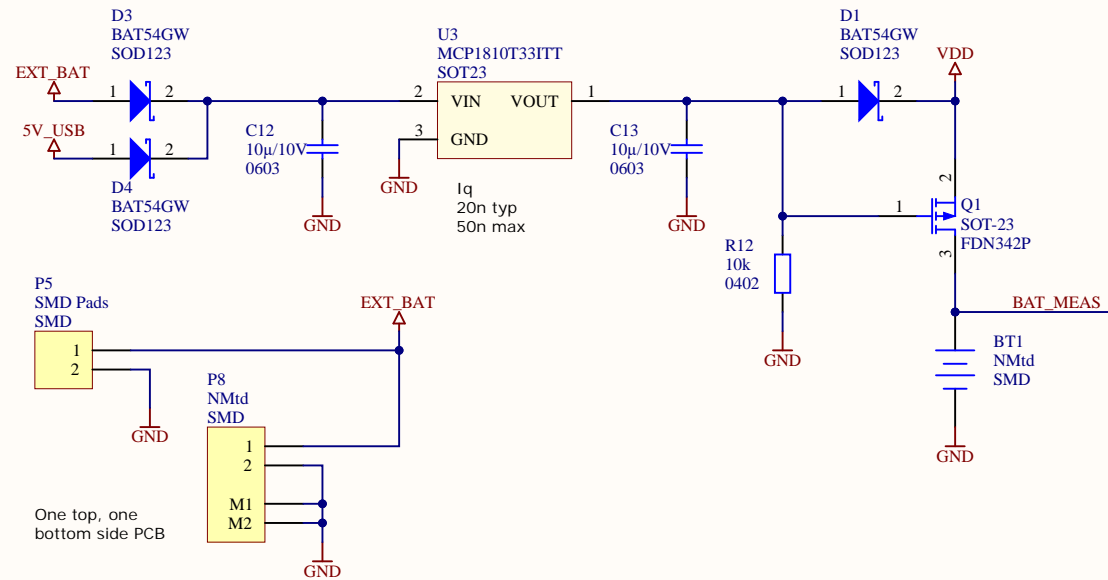
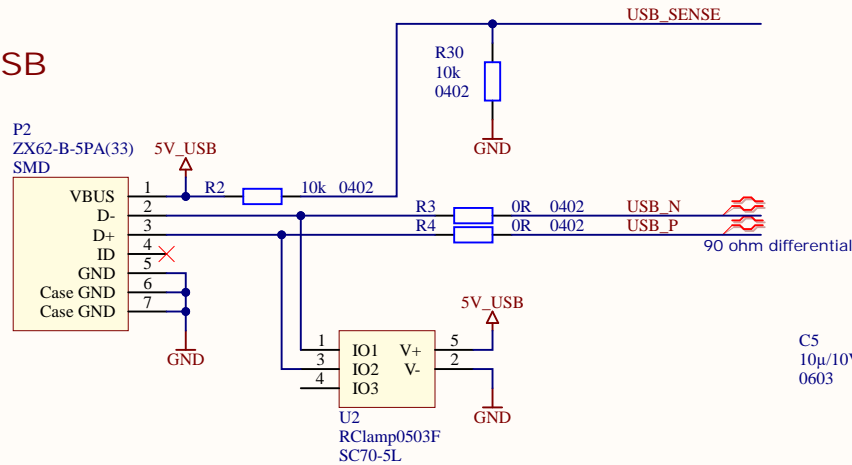


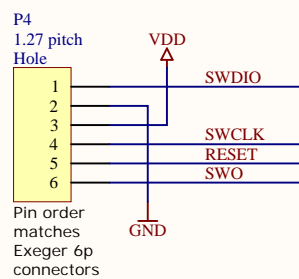
## Power



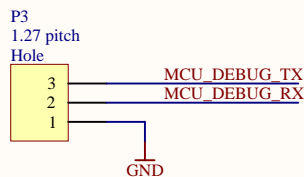
## USB



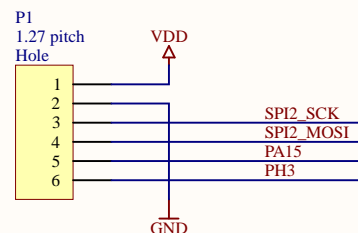
## Program



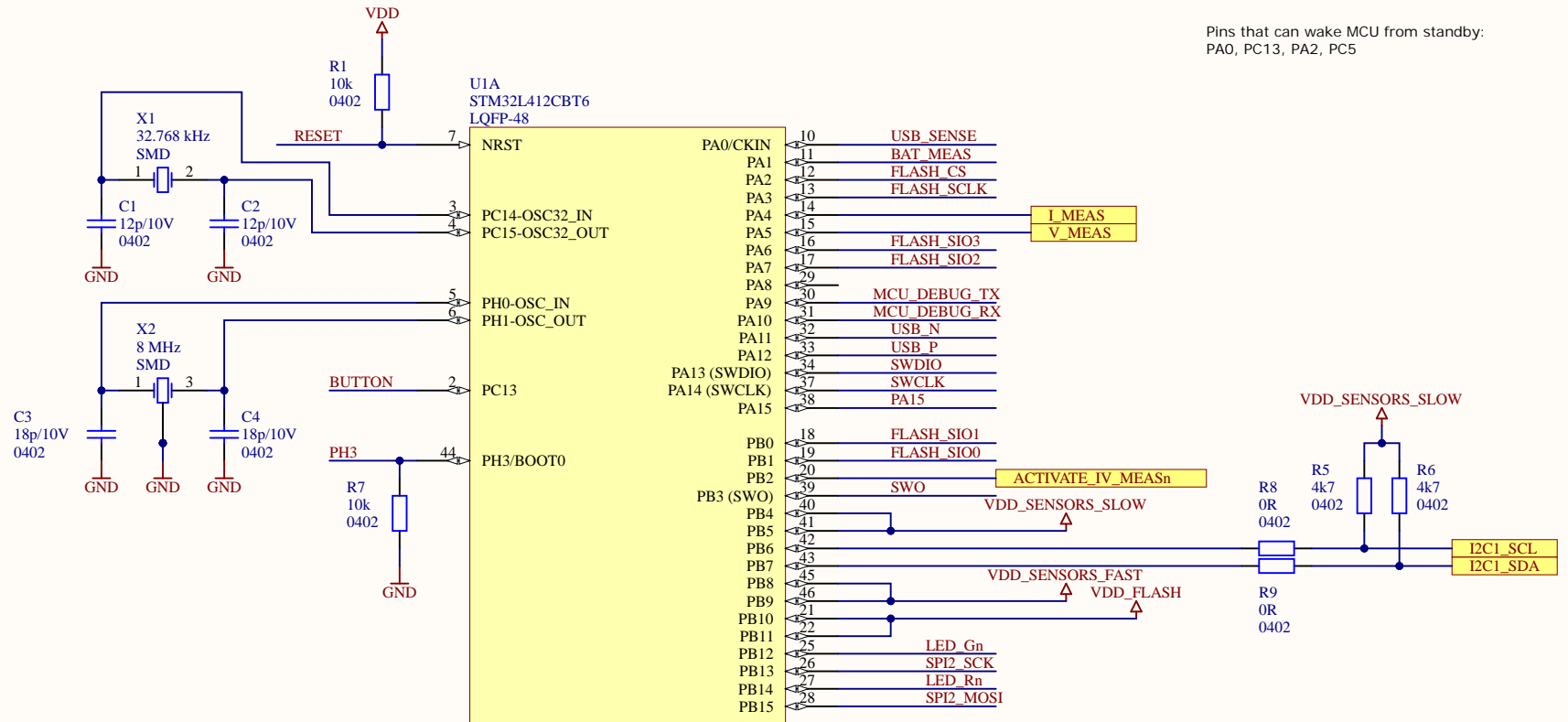
## Serial debug



## Misc patch signals (display?)

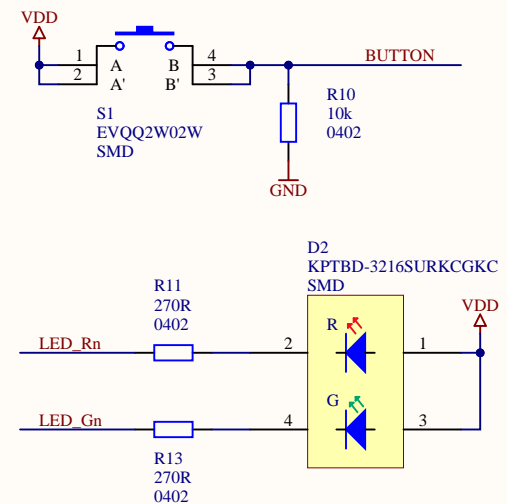


## MCU

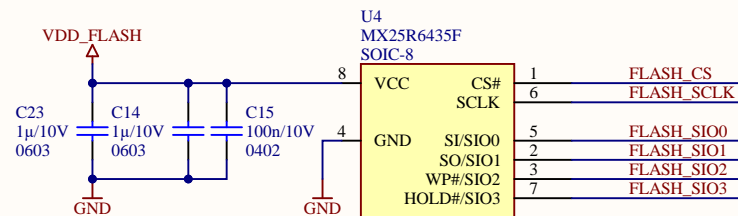


Pins that can wake MCU from standby:  
PA0, PC13, PA2, PC5

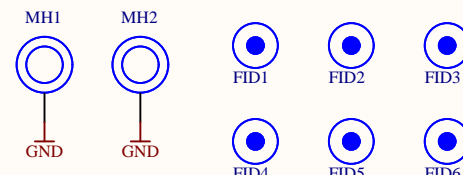
## User "interface"



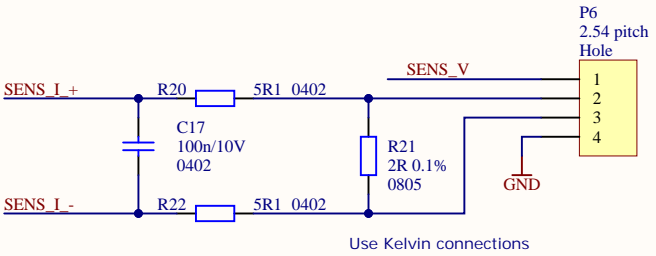
## Flash QSPI



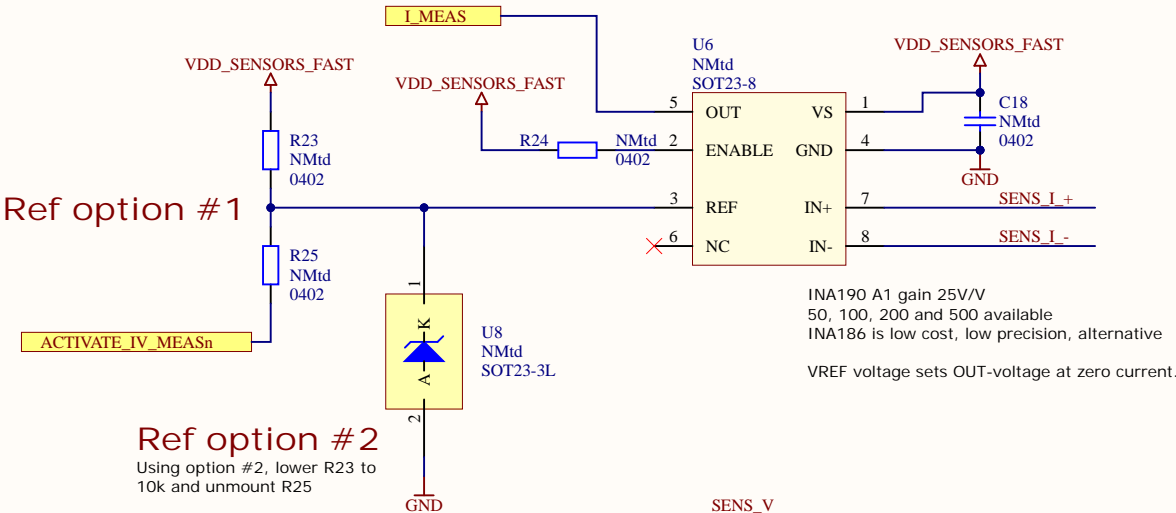
## Mechanical



Battery charge/discharge



Option 1: Low voltage supply



Ref option #1

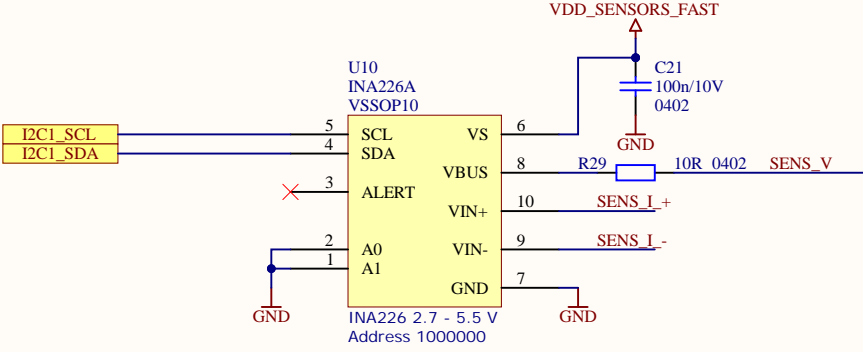
Ref option #2

Using option #2, lower R23 to 10k and unmount R25

INA190 A1 gain 25V/V  
50, 100, 200 and 500 available  
INA186 is low cost, low precision, alternative  
VREF voltage sets OUT-voltage at zero current.

Worst case: Customer battery at 4.2 V  
STM32 powered by low CR2032: 2 V. Therefore divider of more than 2

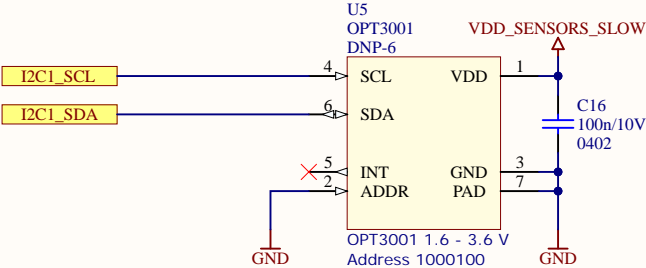
Option 2: Trusted INA226



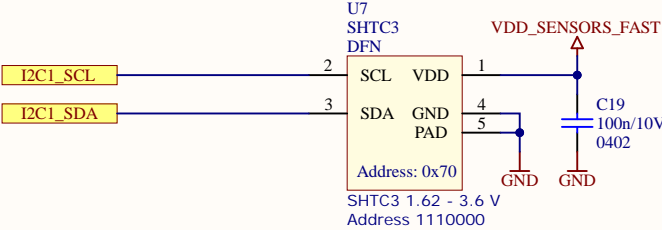
Title LuxLogger V2  
Size: A3 Project: - Revision: 04  
Date: 2020-09-23 Time: 10:32:35 Sheet 2 of 2



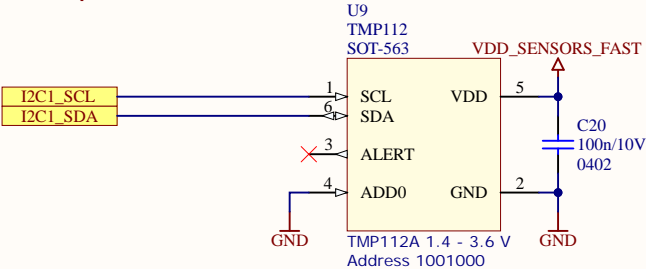
Lux



Relative humidity



Temperature



I2C Expansion

