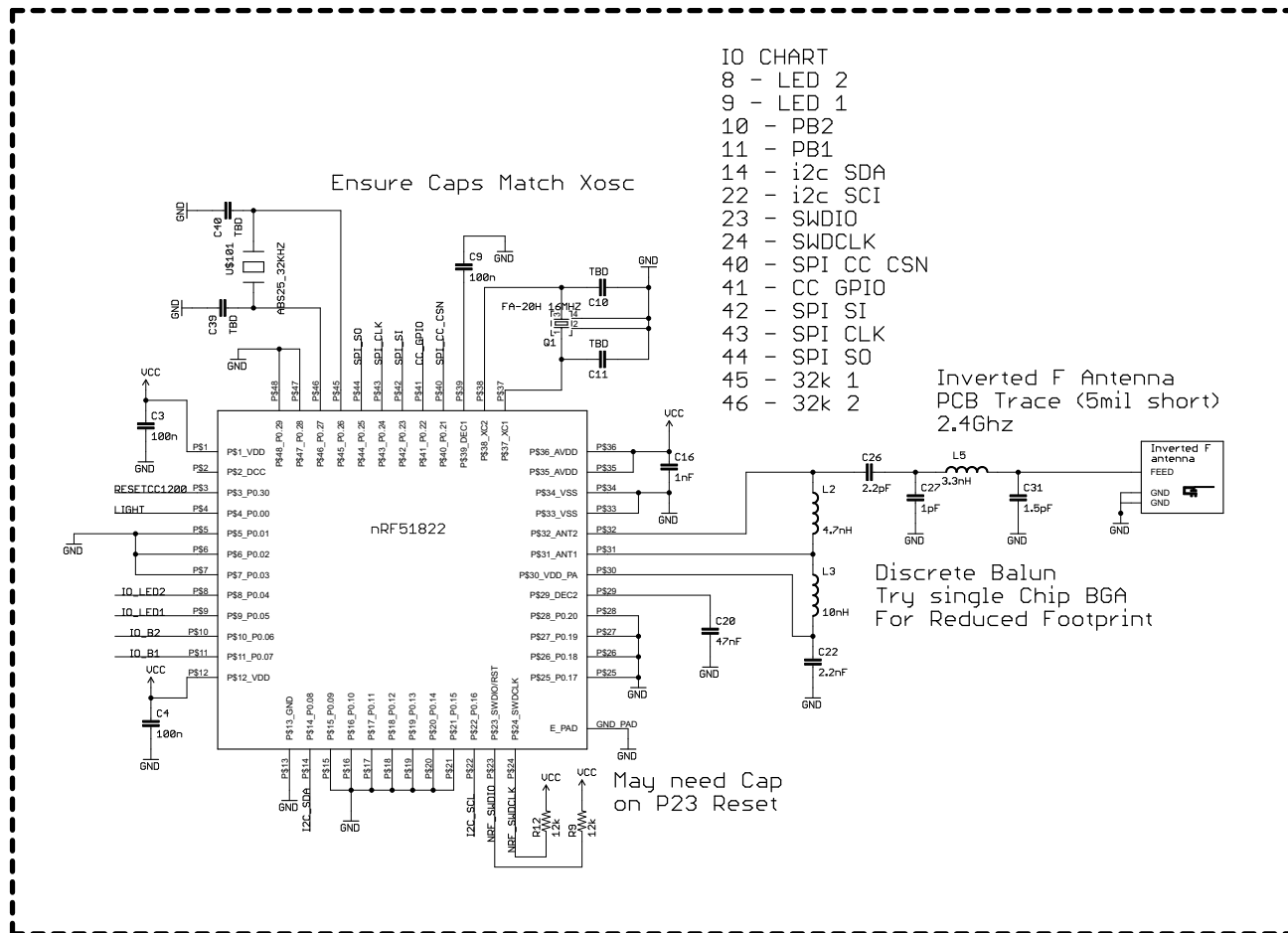
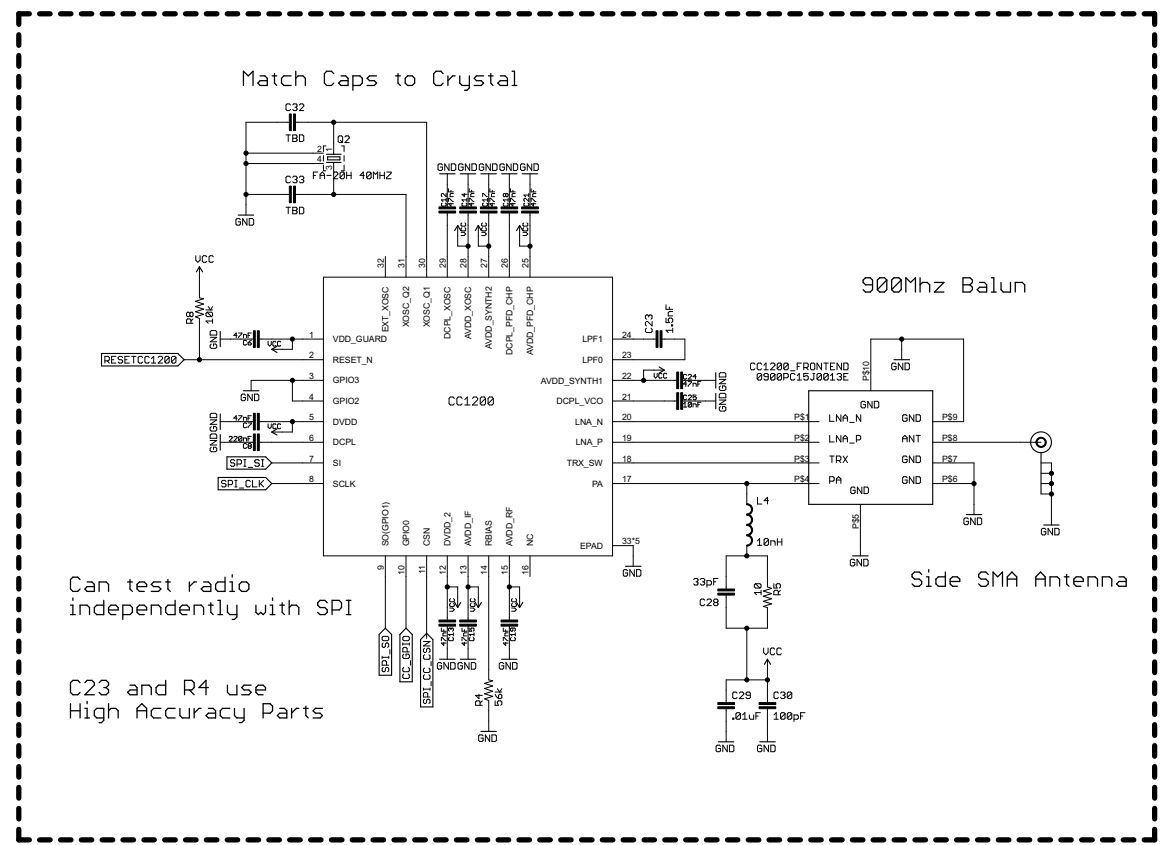


# nrf51822 Bluetooth 4.0 SoC (Arm M0)



SPI Interface  
➔

# TI CC1200 900 MHz Radio



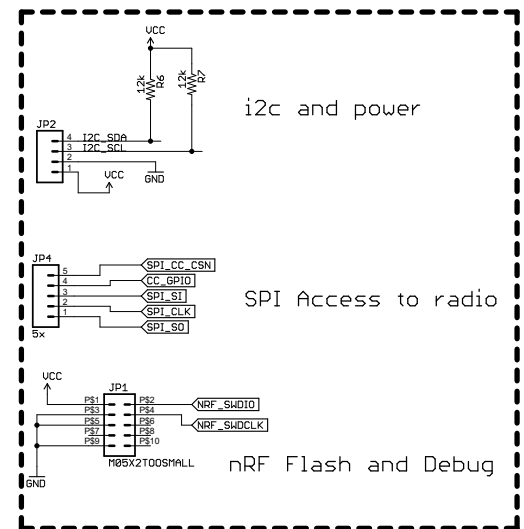
### Errors:

- 1) Drill size on debug header too small
- 2) Vias may be too close to battery
- 3) Vias may be too close to USB

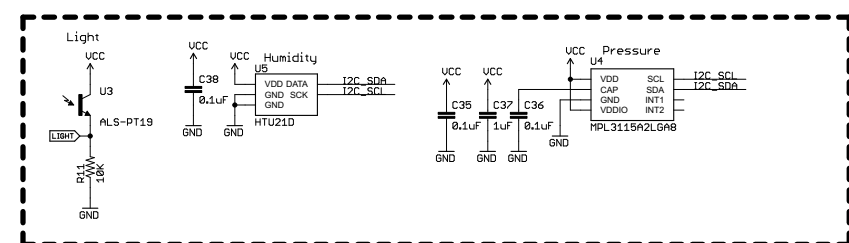
### TODO:

- 1) Use 2 wire header or POGO instead of 10 pin connector for SWDIO
- 2) Replace USB Power with energy harvester for Solar / SuperCap Also remove Battery
- 3) Try nrf Balun to reduce room
- 4) Move Vias further from Battery
- 5) Try seperate RF Ground Plane
- 6) See how small if parts on both sides
- 7) Measure performance without all decoupling caps on CC1200
- 8) Add power protection on header Possibly add switch
- 9) Add LED driver FETs
- 10) Change I2C header to common connector (maybe 2x3)

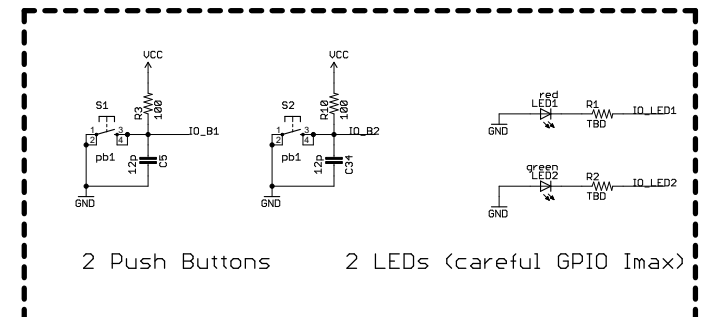
### IO Connectors



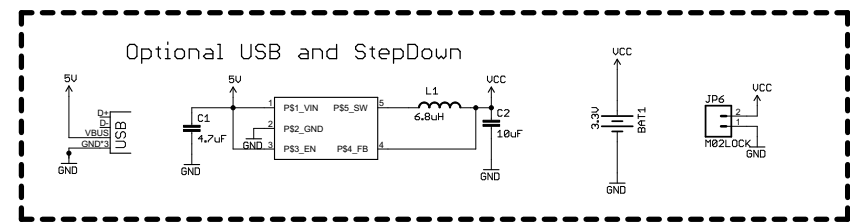
### Sensors



### User Interface



### Power



Bluetooth 4.0 to 900MHz bridge  
Adam Schoenwald  
PCB Rev1