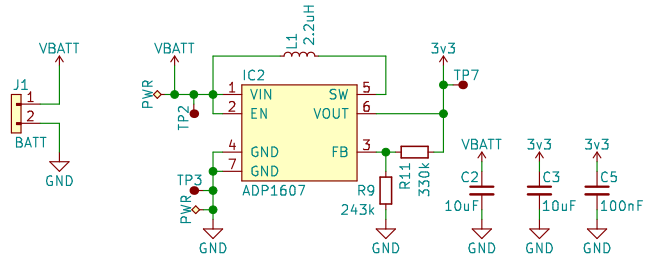
Boost Converter:

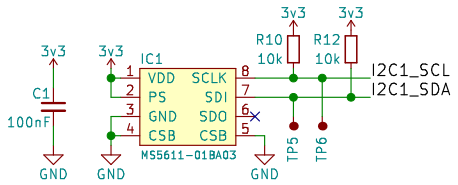
COMPLETE



Input Voltage Range: 0.8v to Vout
Nominal Input Voltage: 1.3v to 1.5v
Nominal Output Current: Max 300mA @ Vout = 3.3v, Vin = 1.3v
Device Requirements: 3.3v @ 160mA
Battery: Energizer L91 AA – Cap = 3500mAh, Vin = 1.3v Min
Vout = 1.259*(1+R1/R2) + 1uA*R1 = 3.2988v w/ R1 = 330k R2 = 243k

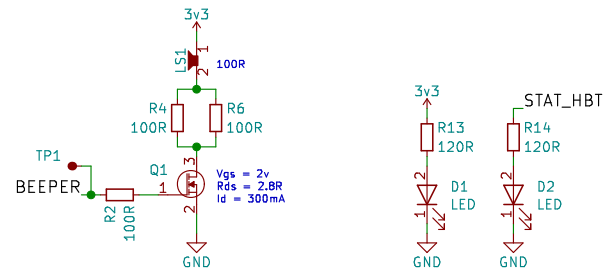
Barometer:

COMPLETE



Indicators:

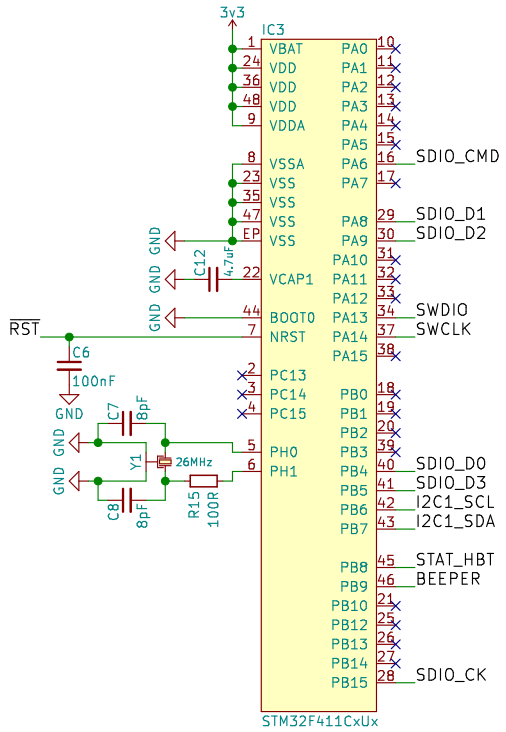
COMPLETE

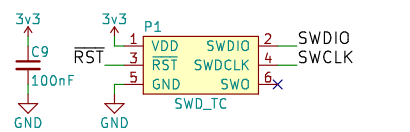


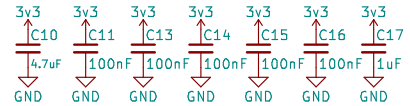
Id = 3.3v / (1/(0.01 + 0.01) + 100 + 2.8) = 21.6 mA
Power = 3.3v * 21.6 mA = 71 mW
21.6 mA @ 3000 mAh –> 138 Hours

Flight Computer:

COMPLETE

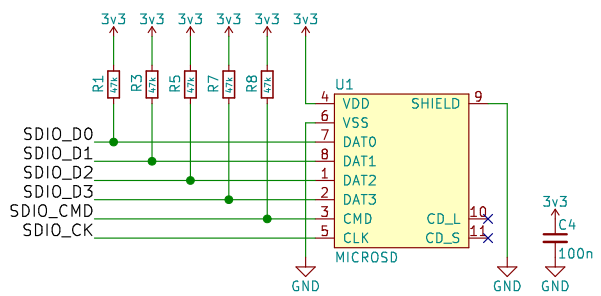






SD Card:

COMPLETE



X1
M3 Hole

X2
M3 Hole

CUSF – Matt Coates

Sheet: /
File: altimeter.sch

Title: Altimeter

Size: A3	Date: 2017-10-26	Rev: 1
KiCad E.D.A. kicad no-vcs-found-835c19f60ubuntu16.04.1		Id: 1/1