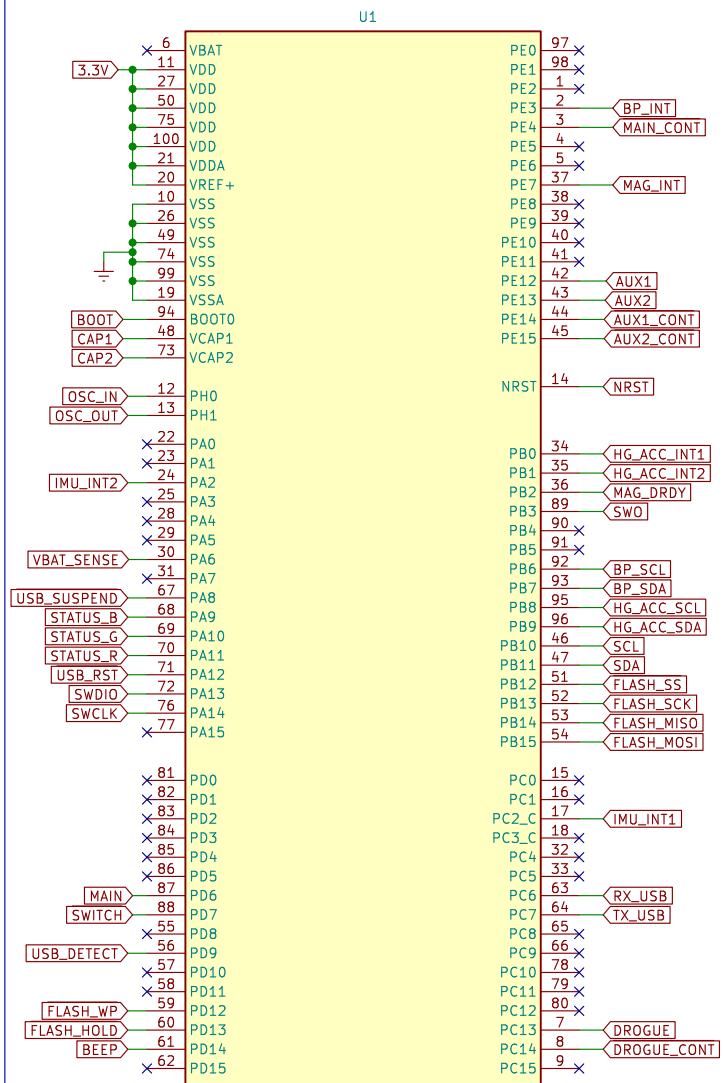
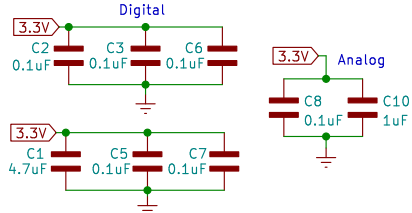


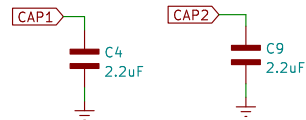
Microcontroller



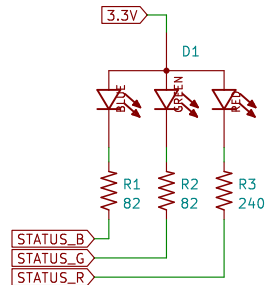
MCU Decoupling Caps



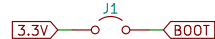
MCU Internal Regulator Caps



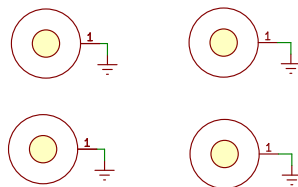
Firmware Status LED



Boot Setting



Mounting Holes



Peripherals

USB
Parachute Deployment
Staging

Flash
Buzzer

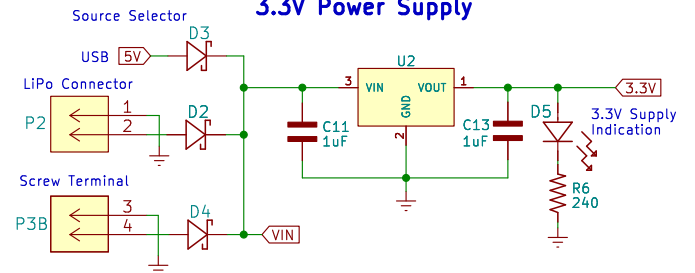
File: peripherals.kicad_sch

Sensors

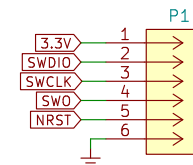
Pressure
IMU
Temperature
Magnetometer

File: sensors.kicad_sch

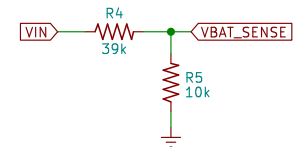
3.3V Power Supply



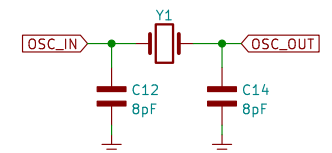
SWD Programmer



Battery Voltage Measurement



Crystal Oscillator



Author: Colton Acosta
Sun Devil Rocketry

Sheet: /
File: Full-Flight-Computer.kicad_sch

Title: Flight Computer

Size: A4
KiCad E.D.A. kicad 7.0.1

Date: 2022-05-30

Rev: 1.0
Id: 1/3

I2C Address
0x0C

3.3V

SCL

SDA

U4

PS
A5
CSB

A3

SCK

B4

SDI

C1

SDO

VDD
VDDIO

INT

DRDY

E5
B2

3.3V

D2

MAG_INT

D4

MAG_DRDY

GND
GND
GND

C5
E1
E3

3.3V

R9 10k

R11 10k CS to logic 1 for I2C mode

3.3V

CS 8

SCL/SPC 4

SDA/SDI/SDO 6

SDO/SAO 7

Default I2C Address: 0x18

U6

VDD 14

VDD 15

VDD_IO 1

INT1 11

INT2 9

NC 2

NC1 3

GND 5

GND 10

GND 12

GND 13

GND 16

H3LIS100DLTR

HG_ACC_SCL

HG_ACC_SDA

HG_ACC_INT1

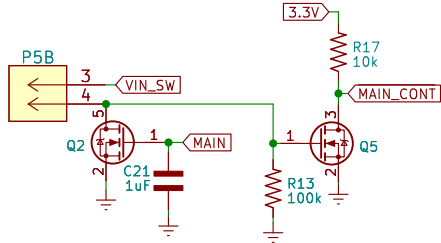
HG_ACC_INT2

C19 0.1uF

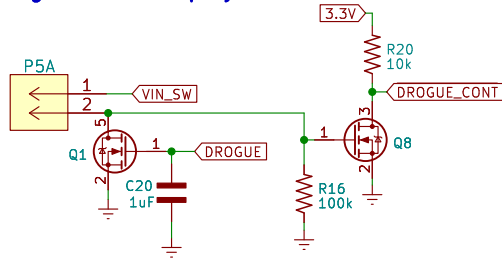
3.3V

Rev:
Id: 3/3

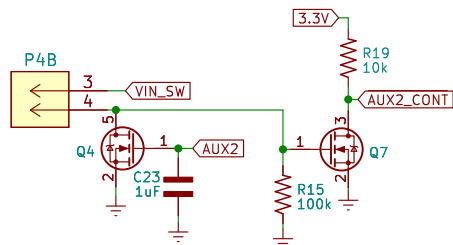
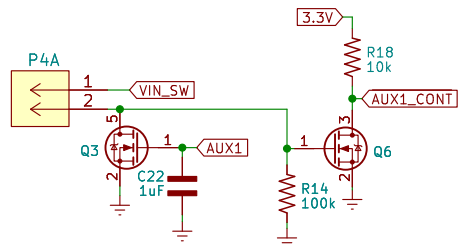
Main Chute Deployment



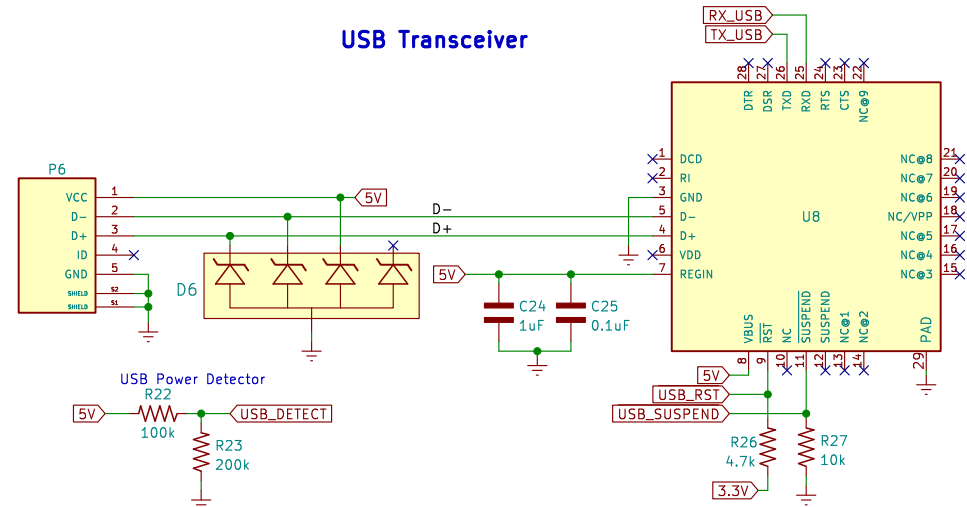
Droque Chute Deployment



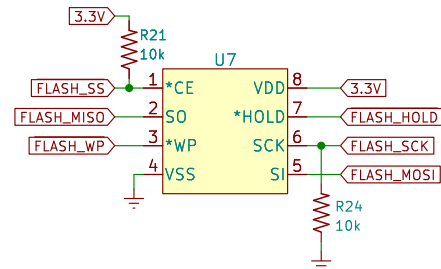
Auxiliary Ports



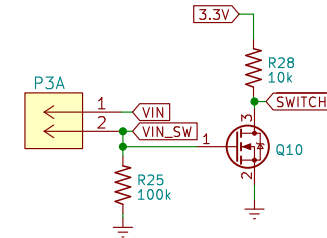
USB Transceiver



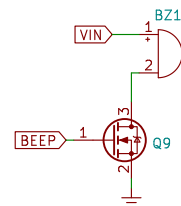
Flash



Arming Switch



Buzzer



Sheet: /Peripherals/
File: peripherals.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad 7.0.1

Rev:

Id: 4/3