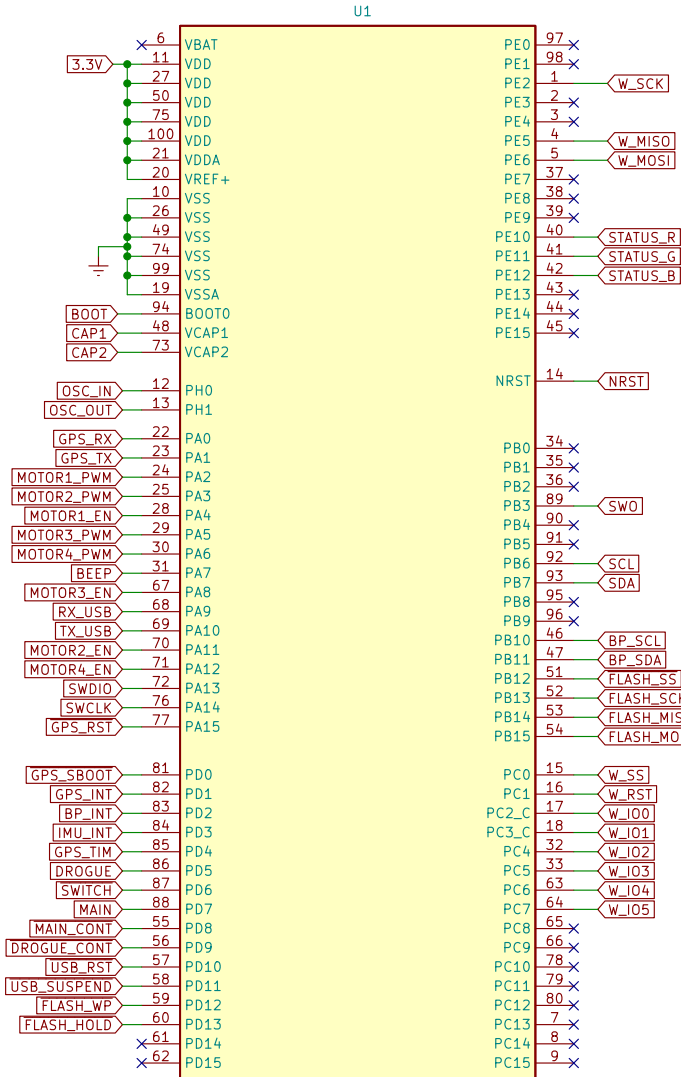
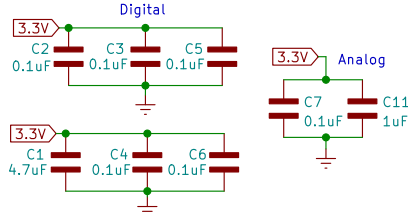


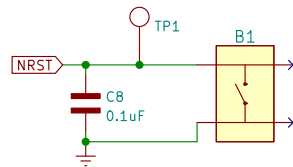
Microcontroller



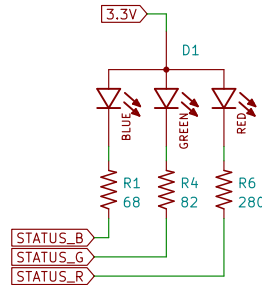
MCU Decoupling Caps



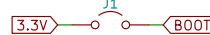
MCU Reset



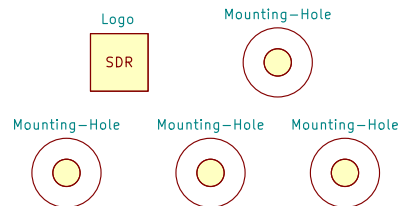
Firmware Status LED



Boot Setting



Miscellaneous



Peripherals

USB
Parachute Deployment
Buzzer

Flash
Wireless

File: peripherals.kicad_sch

Navigation and Control

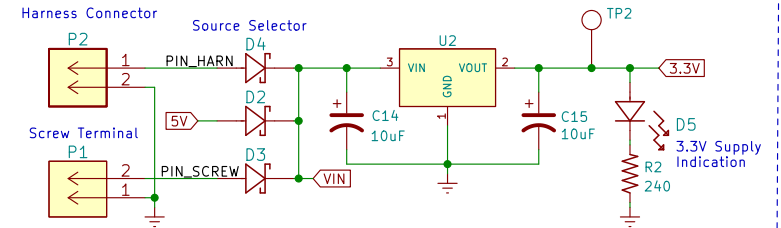
Pressure
IMU
Motor Driver

GPS

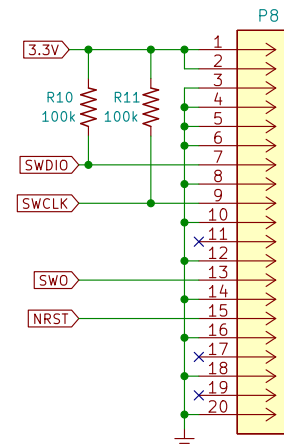
Temperature

File: sensors.kicad_sch

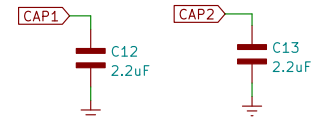
3.3V Power Supply



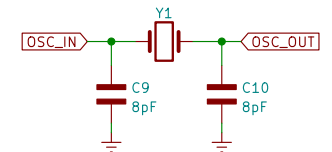
SWD Programmer



MCU Internal Regulator Caps



Crystal Oscillator



Author: Colton Acosta
Sun Devil Rocketry

Sheet: /
File: Flight-Computer.kicad_sch

Title: Flight Computer

Size: A4
KiCad E.D.A. kicad (6.0.5)

Date: 2022-05-30

Rev: 1.0

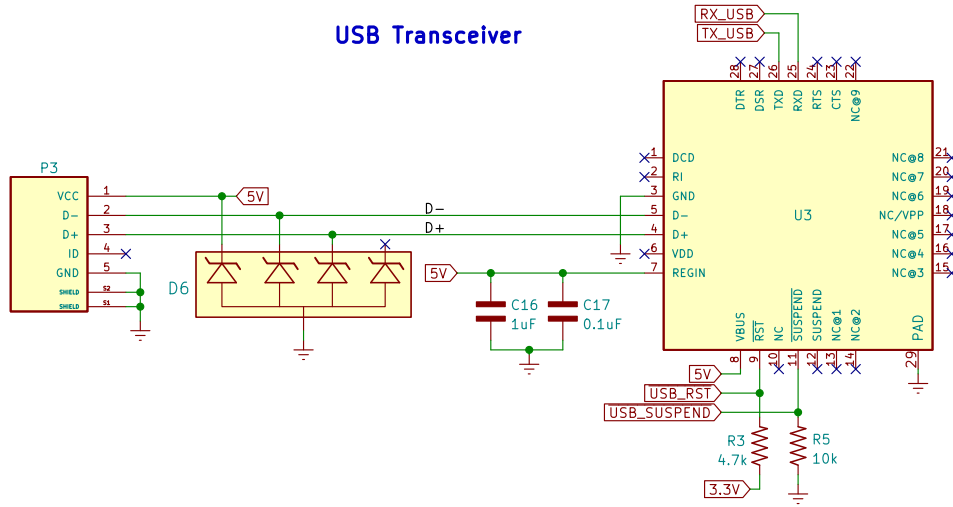
Id: 1/3

The schematic diagram illustrates the electrical connections for the MAX-8C-0-10 module. The module is powered by a 3.3V supply (3V_BAK) connected to pins 8 (VCC), 6 (V_BCKP), and 7 (VCC_IO). A BT1 module is connected to the 3.3V supply. The module's pins are connected to various components as follows:

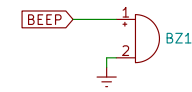
- GPS:** A green line labeled "GPS" with a 50 Ohm impedance is connected to pin 11 (RF_IN). It passes through an inductor L1 (27nH) and a capacitor C26 (0.01uF) to pin 14 (VCC_RF).
- Reset:** Pin 9 (RESET) is connected to a resistor R21 (33 Ohms) and a pull-up to 3.3V. Pin 18 (SAFEBOOT) is connected to a resistor R23 (33 Ohms) and a pull-up to 3.3V.
- Interrupt:** Pin 5 (EXTINT) is connected to a resistor R22 (33 Ohms) and a pull-up to 3.3V.
- I2C:** Pin 16 (SDA) is connected to a resistor R24 (33 Ohms) and a pull-up to 3.3V. Pin 17 (SCL) is connected to a resistor R25 (33 Ohms) and a pull-up to 3.3V.
- RF:** Pin 13 (LNA_EN) is connected to a resistor R26 (33 Ohms) and a pull-up to 3.3V. Pin 2 (TXD) is connected to a resistor R27 (33 Ohms) and a pull-up to 3.3V. Pin 3 (RXD) is connected to a resistor R28 (33 Ohms) and a pull-up to 3.3V. Pin 4 (TIMEPULSE) is connected to a resistor R29 (33 Ohms) and a pull-up to 3.3V. Pin 15 (RESERVED) is connected to a resistor R30 (33 Ohms) and a pull-up to 3.3V.
- Other:** Pin 10 (GND) is connected to ground. Pin 12 (GND) is connected to ground. Pin 1 (GND) is connected to ground.

Rev:
Id: 3/3

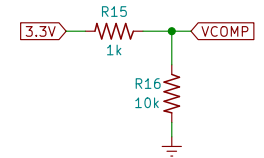
USB Transceiver



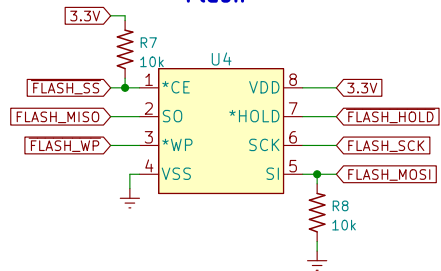
Buzzer



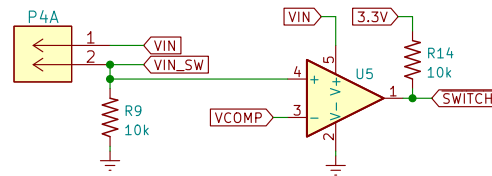
Compartor Reference Voltage



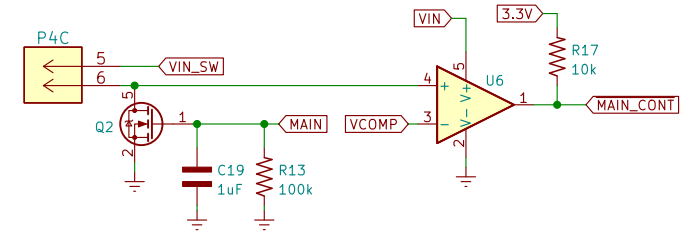
Flash



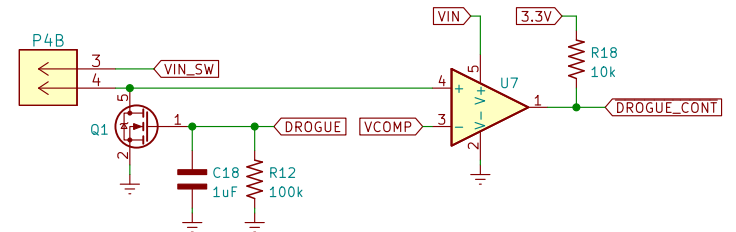
Arming Switch



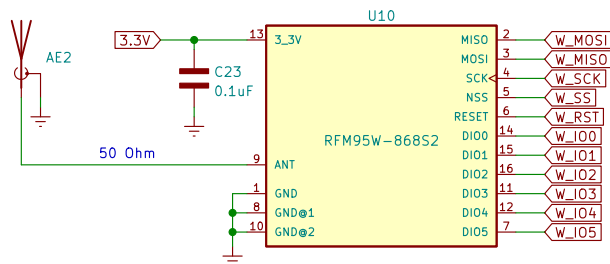
Main Chute Deployment



Drogue Chute Deployment



LoRa Module



Sheet: /Peripherals/
File: peripherals.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad (6.0.5)

Date:

Rev:

Id: 4/3