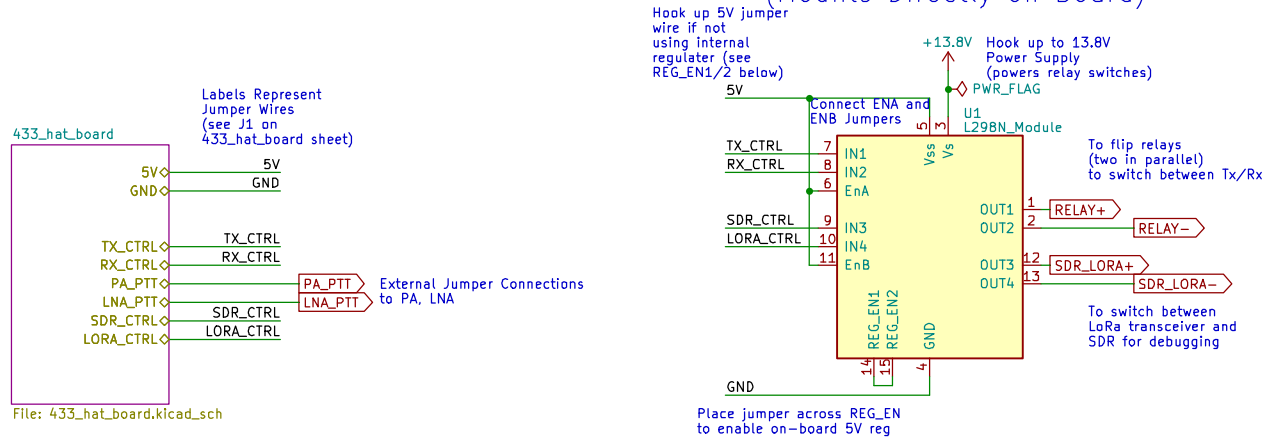


433 HAT Jumper Connections

All Connections on This Sheet are Jumper Wires

H-Bridge Module Jumper Connections (Mounts Directly on Board)



Aditri Patil, Victor Huynh, Hunter Liu

Stanford Student Space Initiative

Sheet: /

File: Groundstation_433_Hat.kicad_sch

Title: 433MHz Ground Station Board

Size: A4

Date: 2024-11-13

Rev: 1.2

KiCad E.D.A. 8.0.4

Id: 1/2

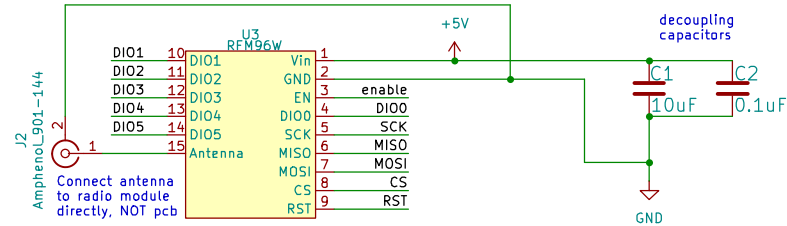
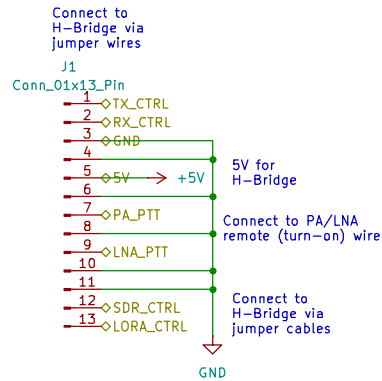
433 HAT Board

This Sheet Contains Internal Board Connections

LoRa Radio Module

Mounted on HAT board via pin headers

H-Bridge Connector



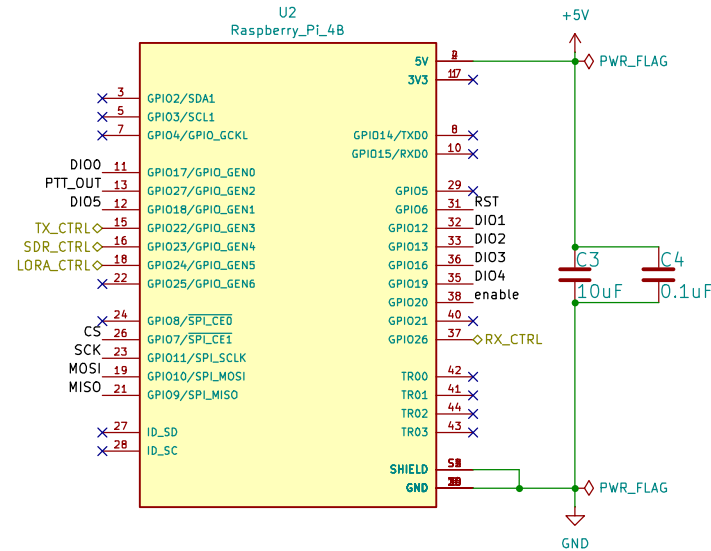
GPIOs

Radio
RF_EN: 20
RF_RST: 6
MISO: 9
MOSI: 10
SCK: 11
CS: 7
DIO0: 17
DIO1: 12
DIO2: 13
DIO3: 16
DIO4: 19
DIO5: 18

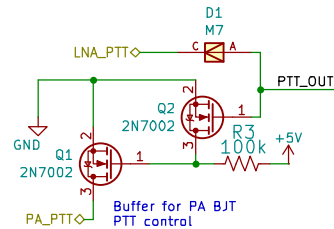
PTT/Relays
PTT_OUT: 27
SDR_CTRL: 23
LORA_CTRL: 24
TX_CTRL: 22
RX_CTRL: 26

Raspberry Pi 4

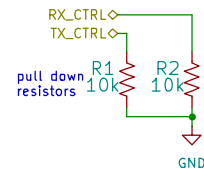
Represents pin header for mounting RPi onto board



LNA/PA Dual Control



H-Bridge Pull-down



Aditri Patil, Victor Huynh, Hunter Liu

Sheet: /433_hat_board/
File: 433_hat_board.kicad_sch

Title: 433 HAT Board Internal Connections

Size: A4
Date: 2024-11-13
KiCad E.D.A. 8.0.4

Rev: 1.2
Id: 1/2