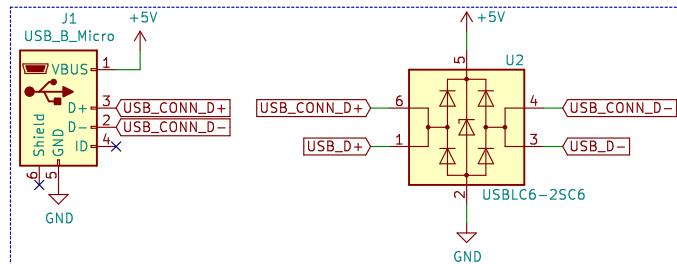
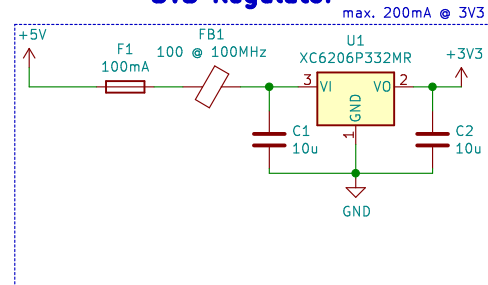


USB Connector and ESD Protection

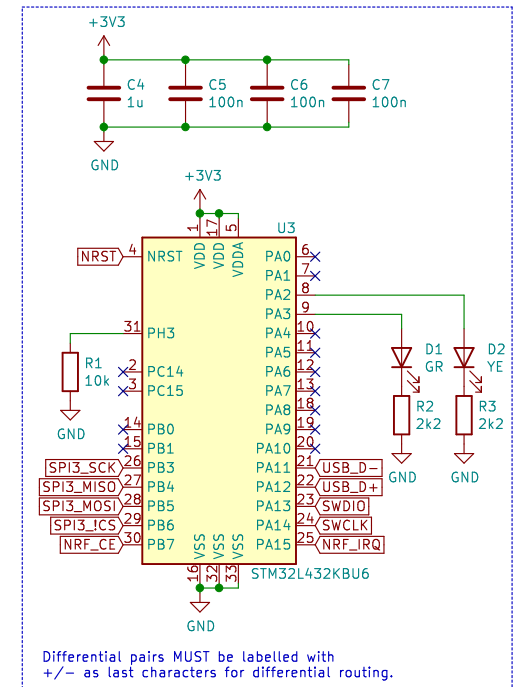


3V3 Regulator



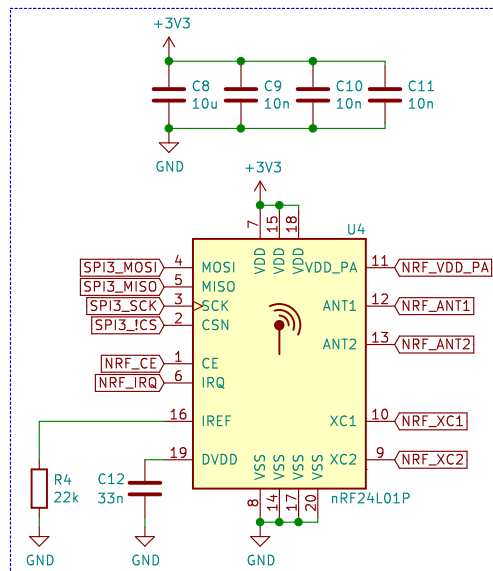
Not reverse polarity protection not required STM32 is powered with USB connector, So the polarity will be correct.

Microcontroller

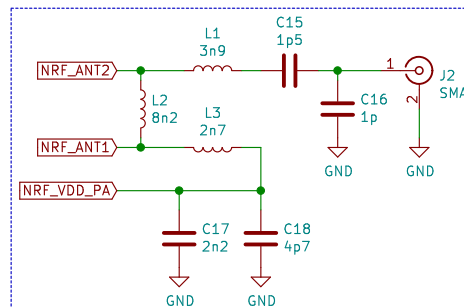


STM32 MCU has internal USB pull-up resistors. (AN4879)

NRF24 Transceiver

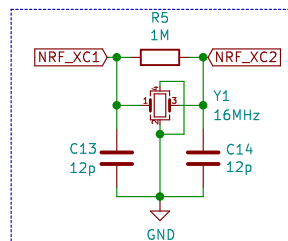


Antenna Impedance Matching and SMA Connector



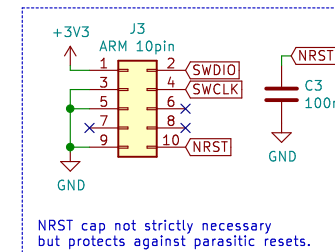
Route as 50 Ohm controlled impedance traces.
Follow datasheet regarding layout.
Passive antenna.

Crystal Oscillator



Load caps: $C = 2 * (C_{load} - C_{stray})$

SWD Connector



NRST cap not strictly necessary
but protects against parasitic resets.

Yaswanth Chalamalasetti

Sheet: /

File: STM32-nRF24.sch

Title: STM32-nRF24 Development Board

Size: A4

Date:

Size: A4	Date:
KiCad E.D.A.	kicad (5.1.9)-1

Rev: Rev. A

Id: 1/1