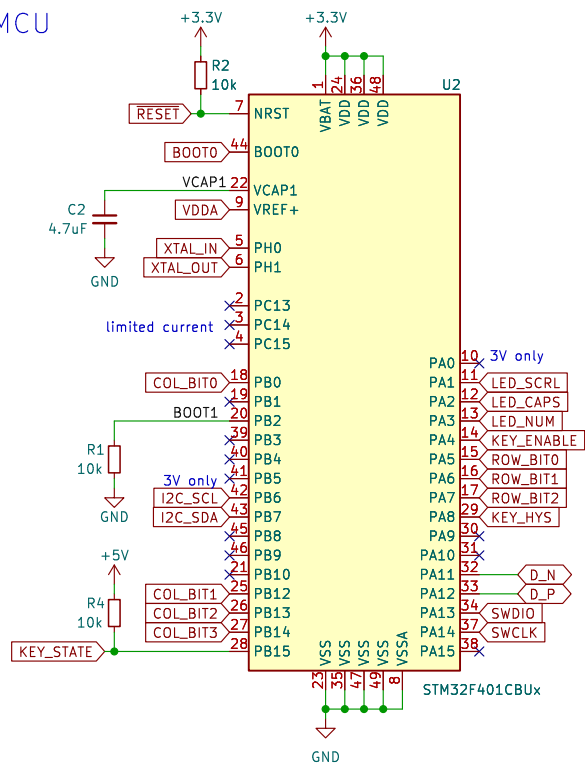
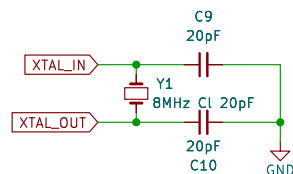


## MCU



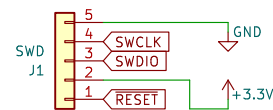
## Oscillator



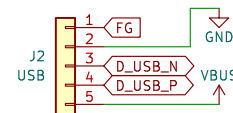
C9, C10 =  $2 \times 20\text{pF}$  (load capacitance)  
 $- 2 \times 10\text{pF}$  (stray capacitance estimate per MCU datasheet)  
 $= 20\text{pF}$

Crystal frequency chosen based on QMK default board config  
 GENERIC\_STM32\_F401XC

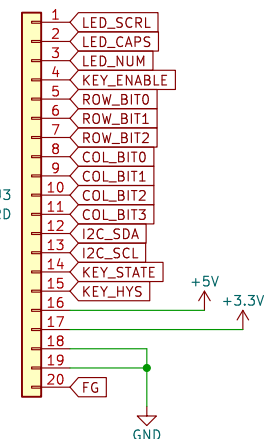
## Connectors



## USB input

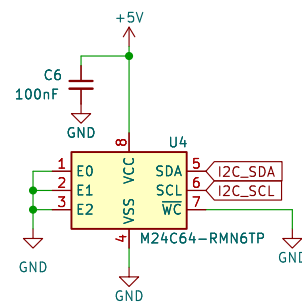


J3  
KEYBOARD

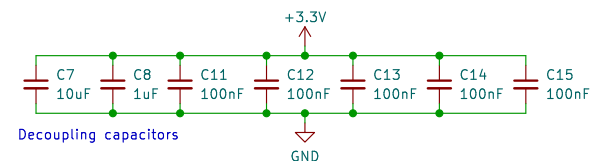


## EEPROM

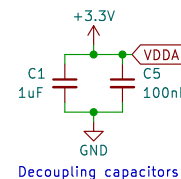
optional



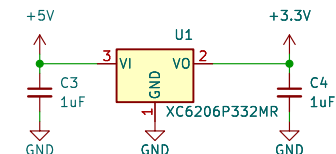
## Power



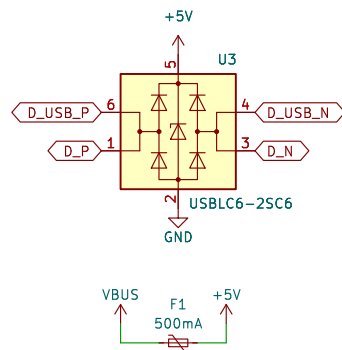
Decoupling capacitors



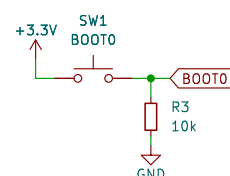
Decoupling capacitors



## USB protection



## Bootloader selection



- H1 JLC tooling hole
- H2 JLC tooling hole



Licensed under CERN-OHL-S V2

Wilhelm Schuster

Sheet: /

File: fc980c-controller.kicad\_sch

**Title: Leopold FC980C Replacement Controller**

Size: A4

Date:

KiCad E.D.A. 8.0.4

Rev: 2

Id: 1/1