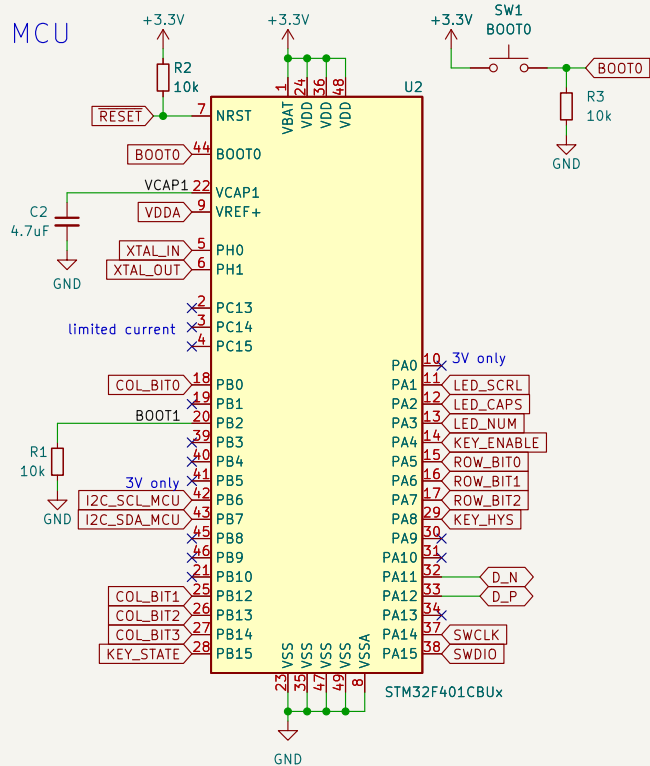
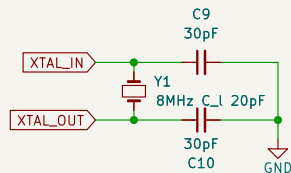


MCU

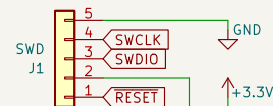


Oscillator

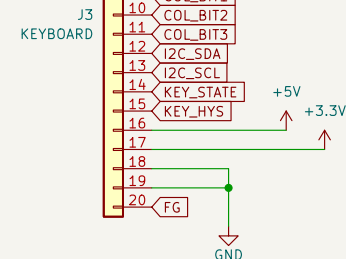
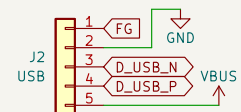


C9, C10 = 2 * 20pF (load capacitance)
= 2 * 5pF (stray capacitance)
= 30pF

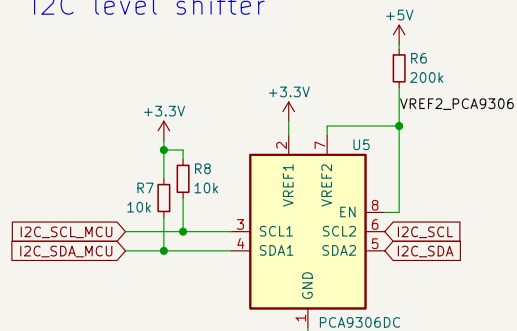
Connectors



USB input

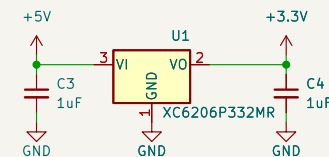
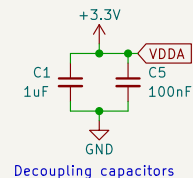
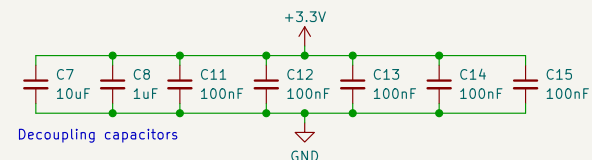


I2C level shifter

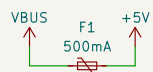
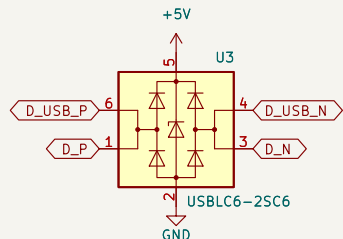


I2C on the keyboard side is pulled up to 5V, original controller connects MCU (3.3V, 5V tolerant) directly, seems a bit sketchy to me

Power



USB protection



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. kicad (6.0.9)

Rev: 1

Id: 1/1