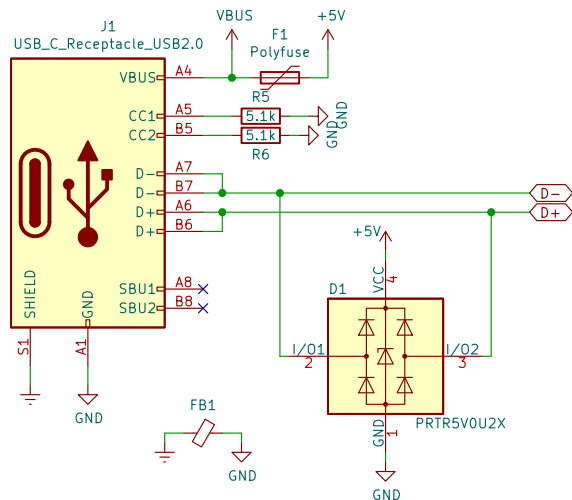
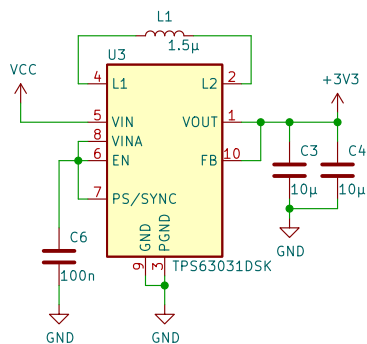


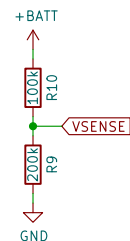
USB Connector



Voltage Regulation

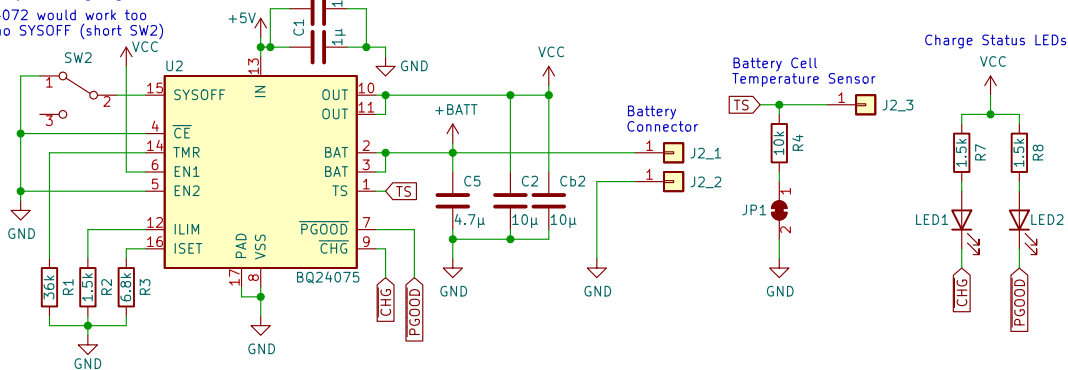


Battery Voltage Monitoring



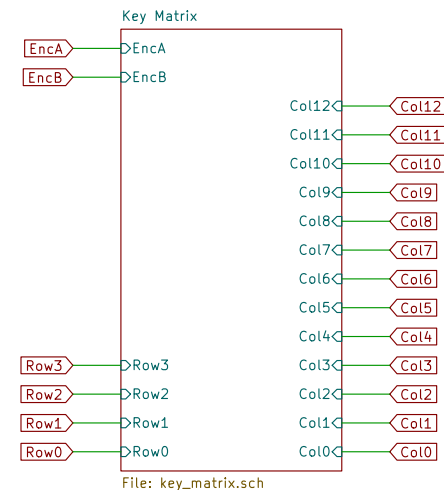
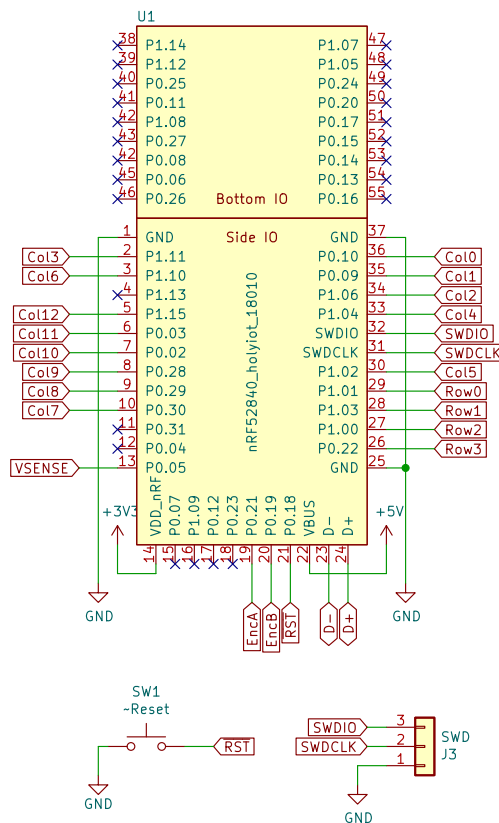
Battery Charging

BQ24072 would work too but no SYSOFF (short SW2)



EN1, EN2 = 1, 0 → USB500 mode
Do not mount R1 to use default safety timers

MCU



File: key_matrix.sch

Mechanical



File: mechanical.sch

Power nets:

VBUS : raw USB power
+5V : fused USB power (500mA)
+BAT : battery positive voltage
VCC : unregulated supply, from BUS (if connected) or battery
+3V3 : regulated 3.3V

TODO:

Add resettable fuse on +VBATT
Double C2 on VCC – mounting option

Low-profile Ortholinear Mechanical Keyboard
– Designed for Kaih "Choc" PG1350 switches
– Wireless (BT)
– USB-C, Backlight

plutOnium

Sheet: /
File: 0x32.sch

Title: 0x32

Size: A4 Date: 2021-01-20

KiCad E.D.A. kicad (6.0.0)

Rev: v01

Id: 1/3