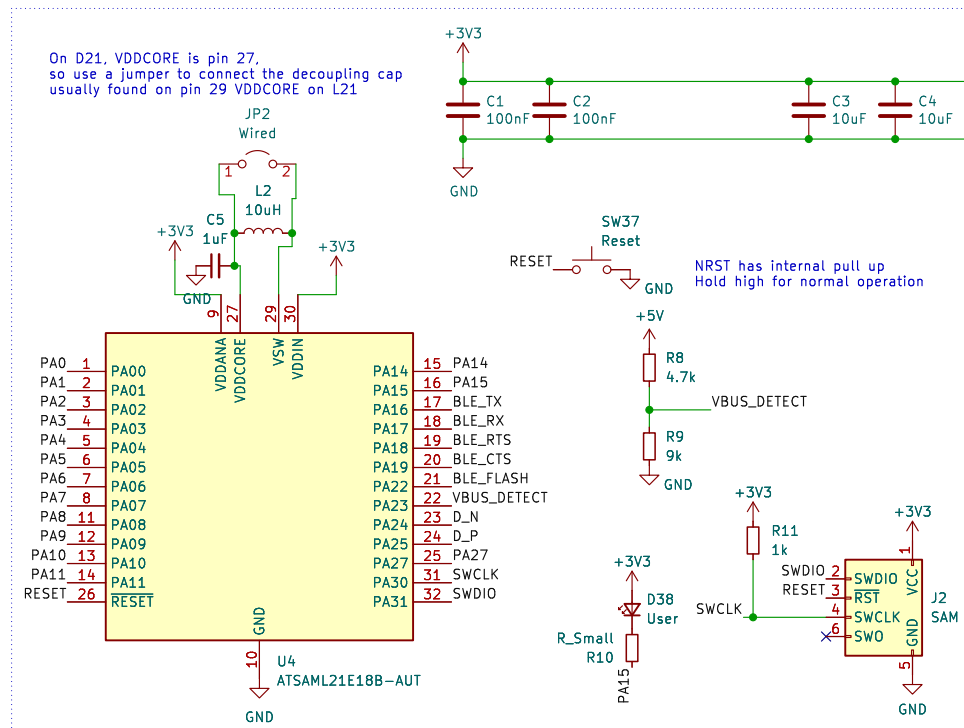
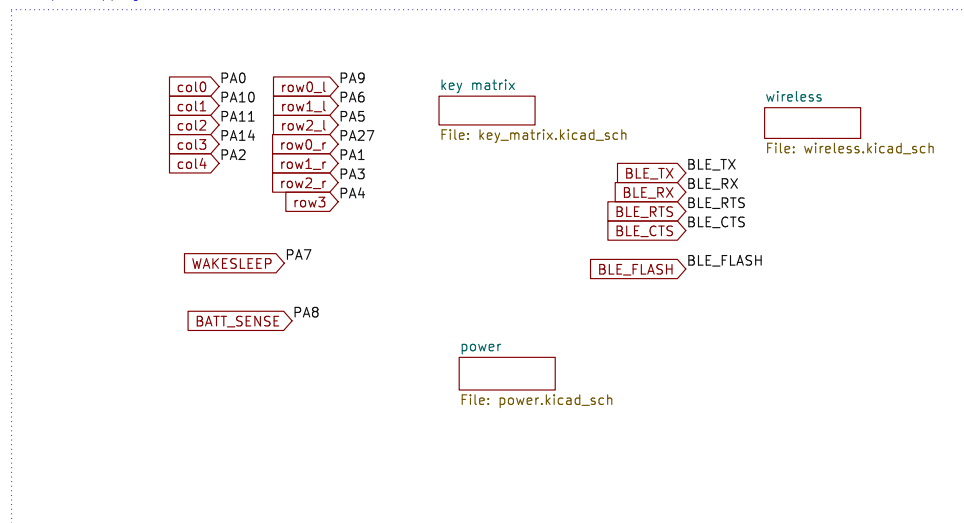


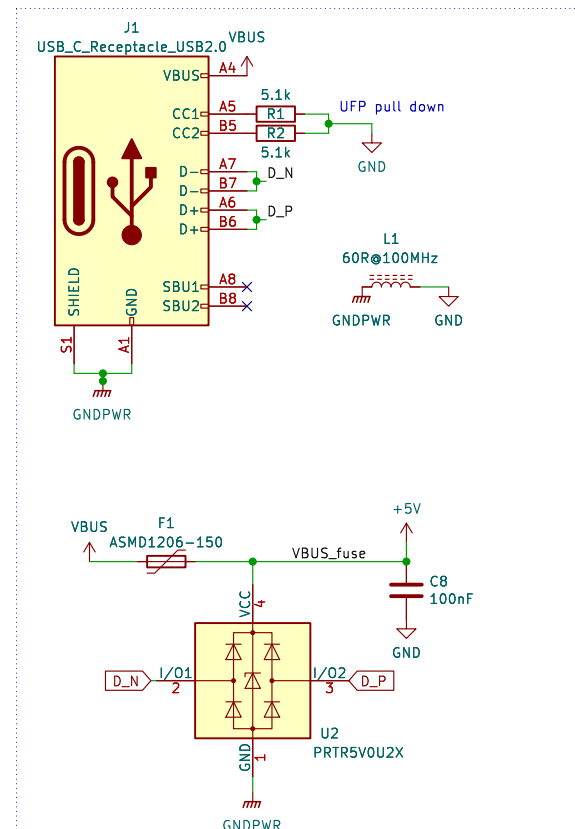
## MCU



## MCU pin mapping



## USB-C and ESD



TODO:

- \* Tune xtal capacitance!
- \* Add ESD bypass
- \* Silk for jumpers and each major section

Differential pair ref:  
2 layer PCB  
microstrip spacing: 0.127mm  
coplanar reference spacing: 0.127mm  
signal width: 0.25mm  
dielectric thickness: 1.6mm

calculator: <https://www.eeweb.com/tools/edge-coupled-microstrip-impedance/>  
<https://resources.altium.com/p/routing-requirements-usb-20-2-layer-pcb>

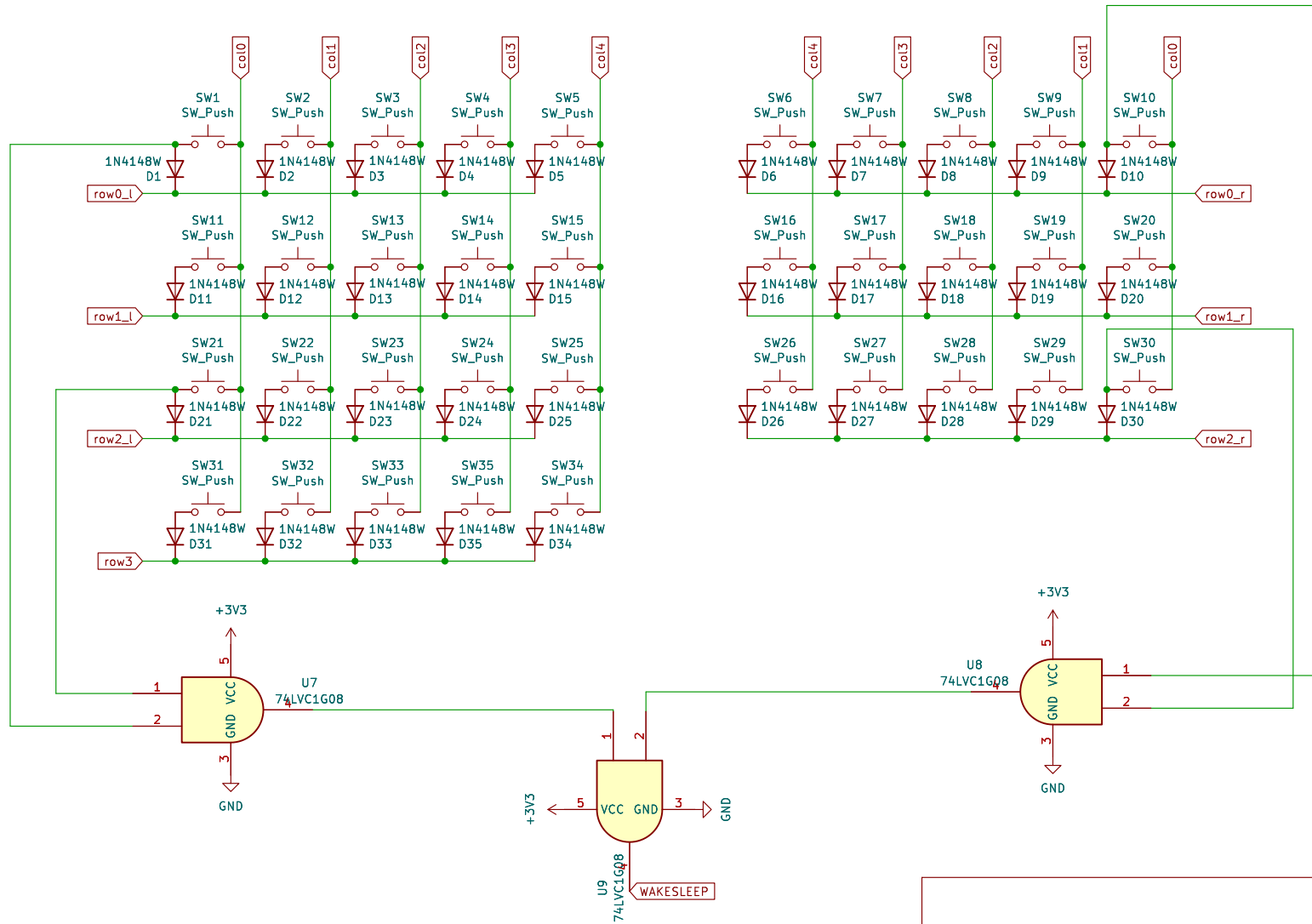
**sporkus**

Sheet: /  
File: stm32\_hotswap\_chiffre.kicad\_sch

**Title:** Hotswap Chiffre

Size: A4	Date: 2023-07-13
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Rev: 0.2.2



sporkus

Sheet: /key matrix/  
File: key\_matrix.kicad\_sch

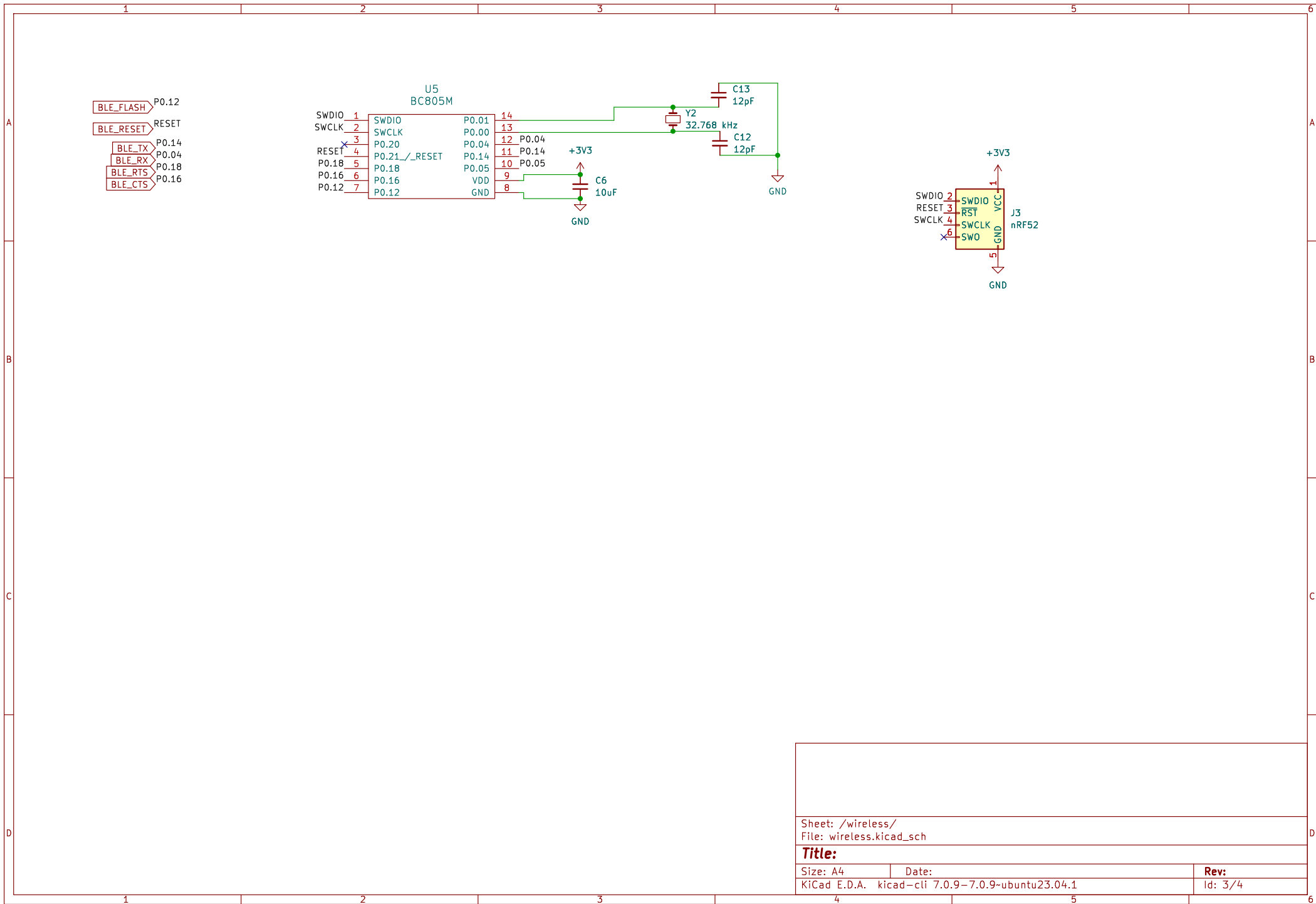
**Title: Hotswap Chiffre**

Size: A4 Date: 2023-07-13

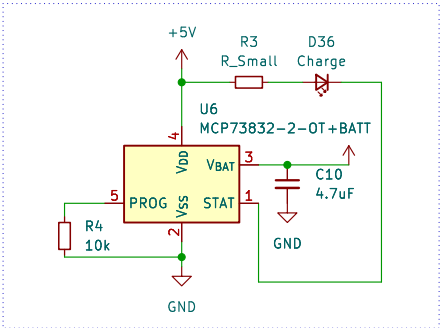
KiCad E.D.A. kicad-cli 7.0.9-7.0.9-ubuntu23.04.1

Rev: 0.2.2

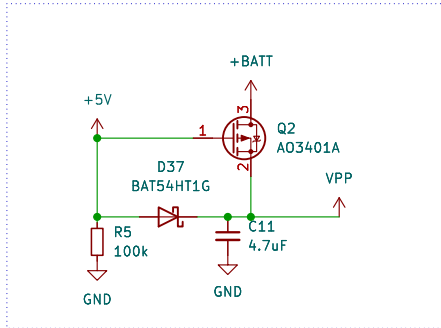
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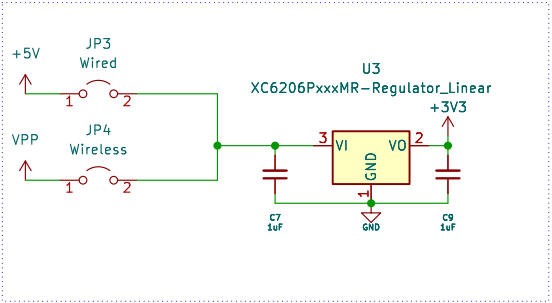
Charging



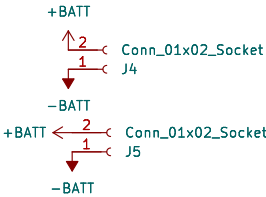
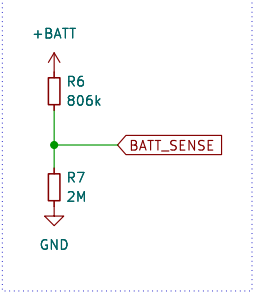
Power Path



3.3V LDO



Battery Estimation



Sheet: /power/  
File: power.kicad\_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad-cli 7.0.9-7.0.9-ubuntu23.04.1

Rev:

Id: 4/4