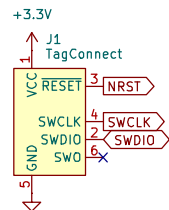


Power

LEDs

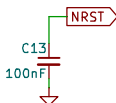


TagConnect



Reset protection

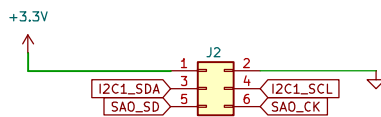
Reset network protects the device against parasitic resets.



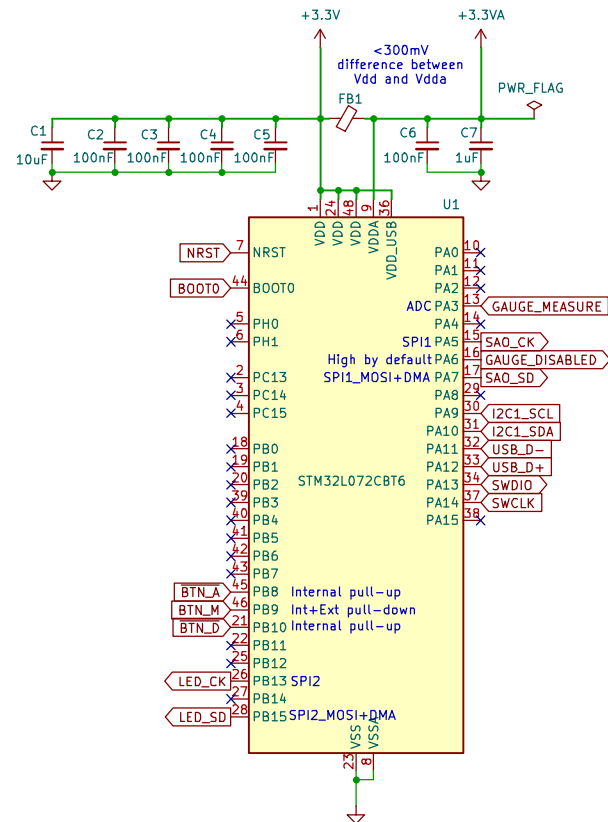
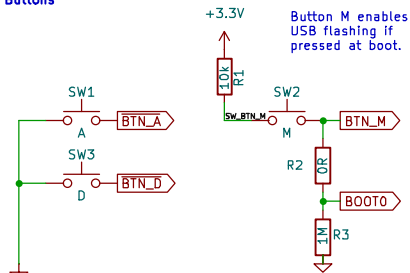
NRST is connected to a permanent internal pull-up resistor (~45kΩ). The external capacitor must be placed close to MCU.

(DS10689 Rev 5, p.101)

Shitty Add-On



Buttons



PA4-PA7 Configured by bootloader as pull-down (AN2606 page 326).

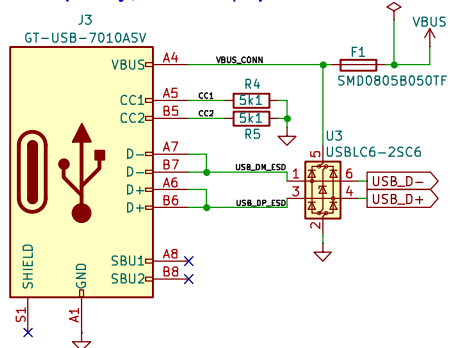
BSides Vilnius, Vsl

Sheet: /
File: bsv2025.kicad_sch

Title: badge2025

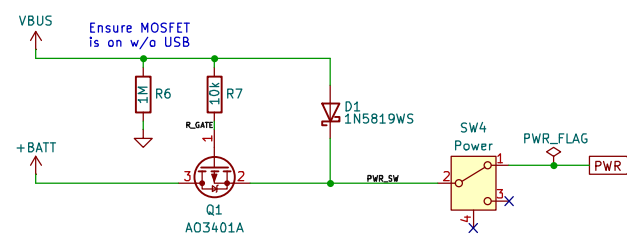
Size: A4 Date: 2025-05-24
KiCad E.D.A. 8.0.8

Rev: v1.0.1
Id: 1/3



Power source selection

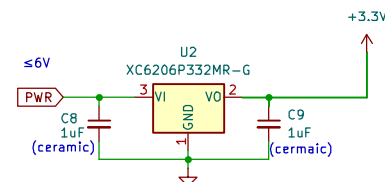
Cut off Battery from the load when USB power is available.



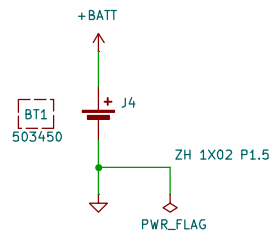
Voltage regulator (Power for MCU)

Vdrop = 680mV @ 100mA

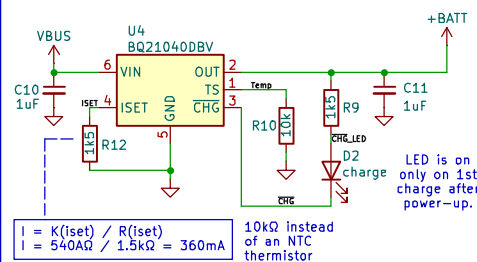
lout(max) = 200mA



Battery

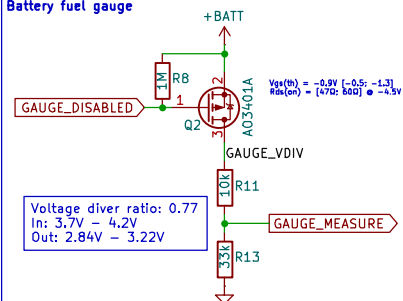


Battery charger

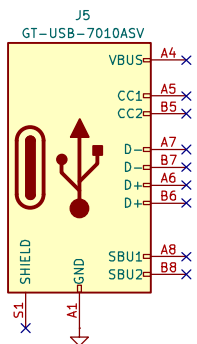


LED is on only on 1st charge after power-up.

Battery fuel gauge



USB Port (not connected)



BSides Vilnius, Vsl

Sheet: /Power/

File: power.kicad_sch

Title: badge2025

Size: A4

Date: 2025-05-24

Rev: v1.0.1

Id: 2/3

