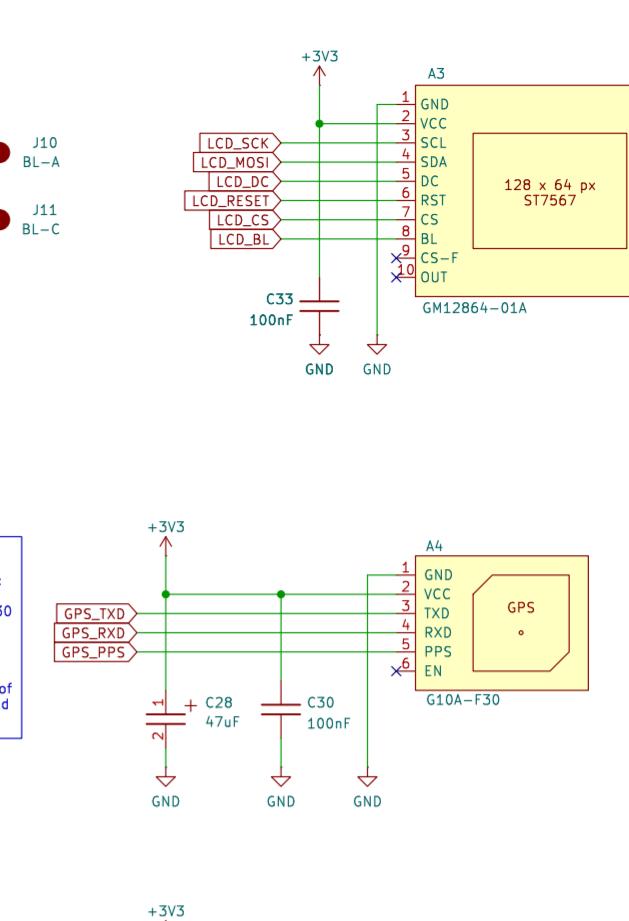
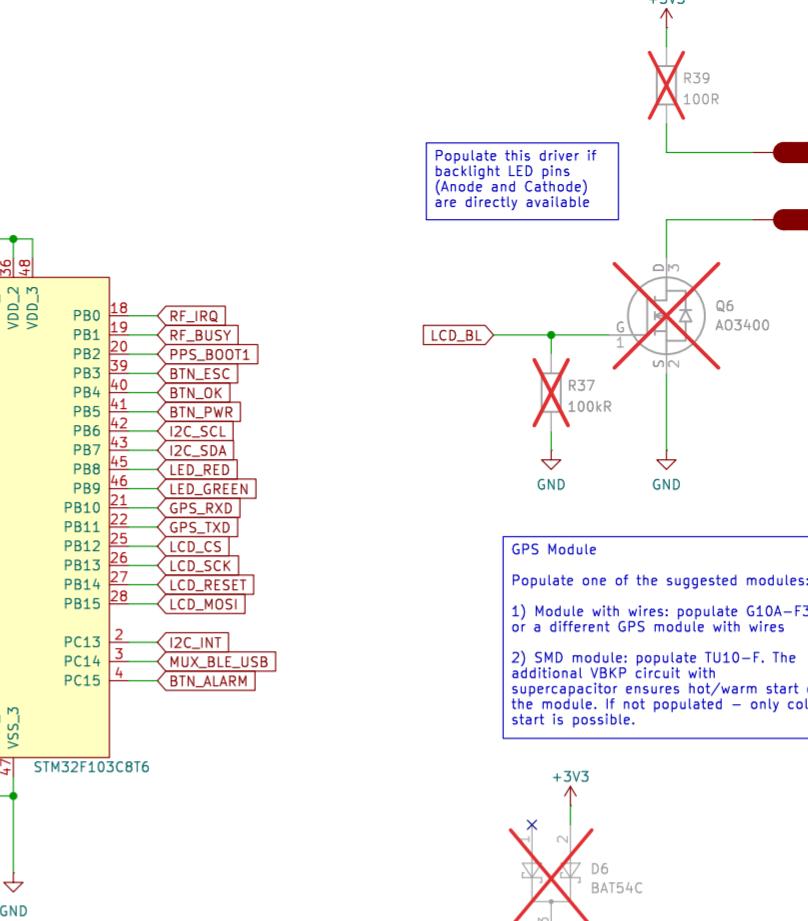
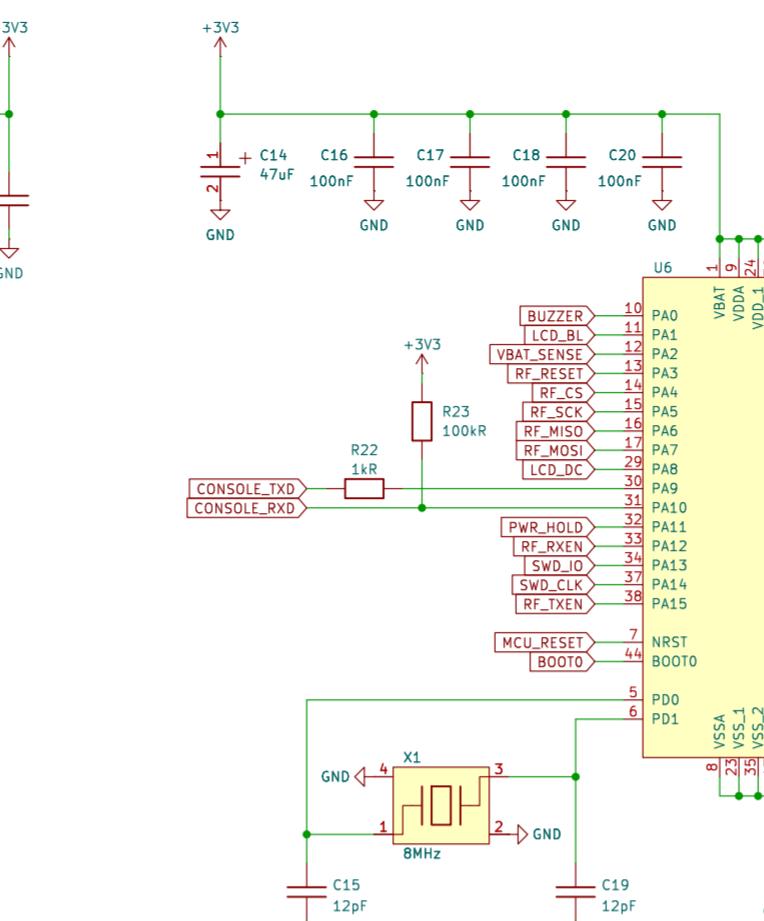
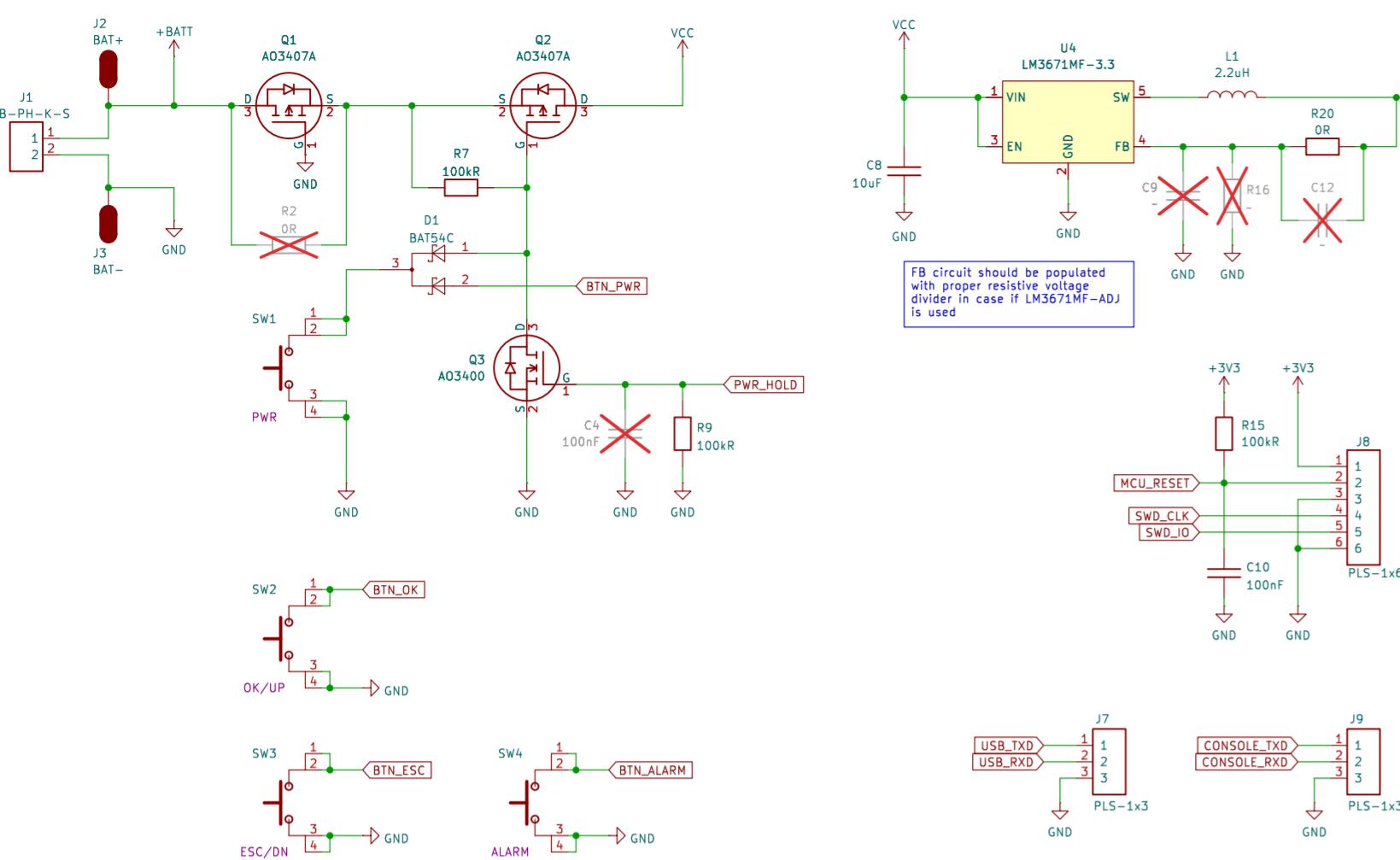
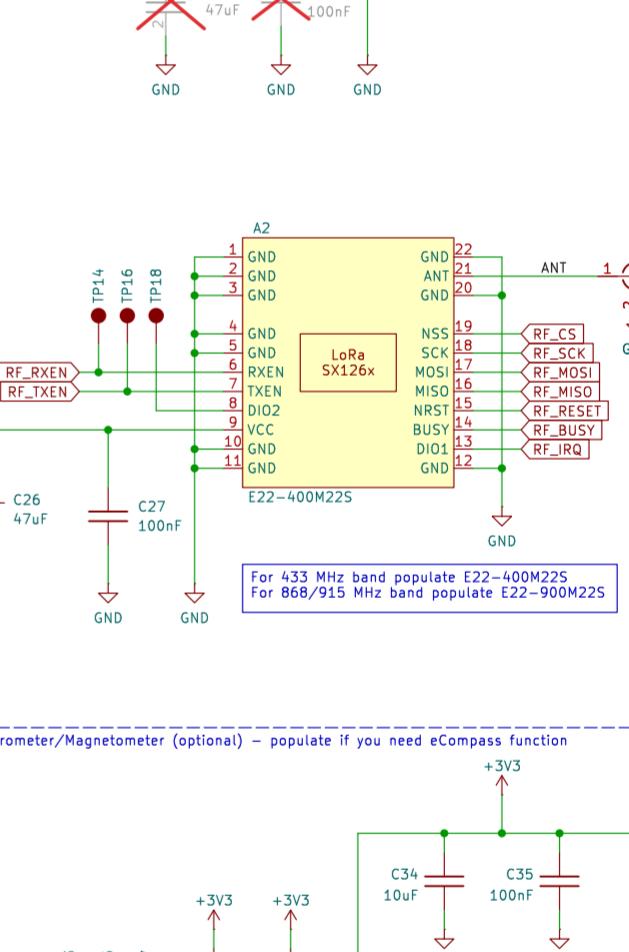
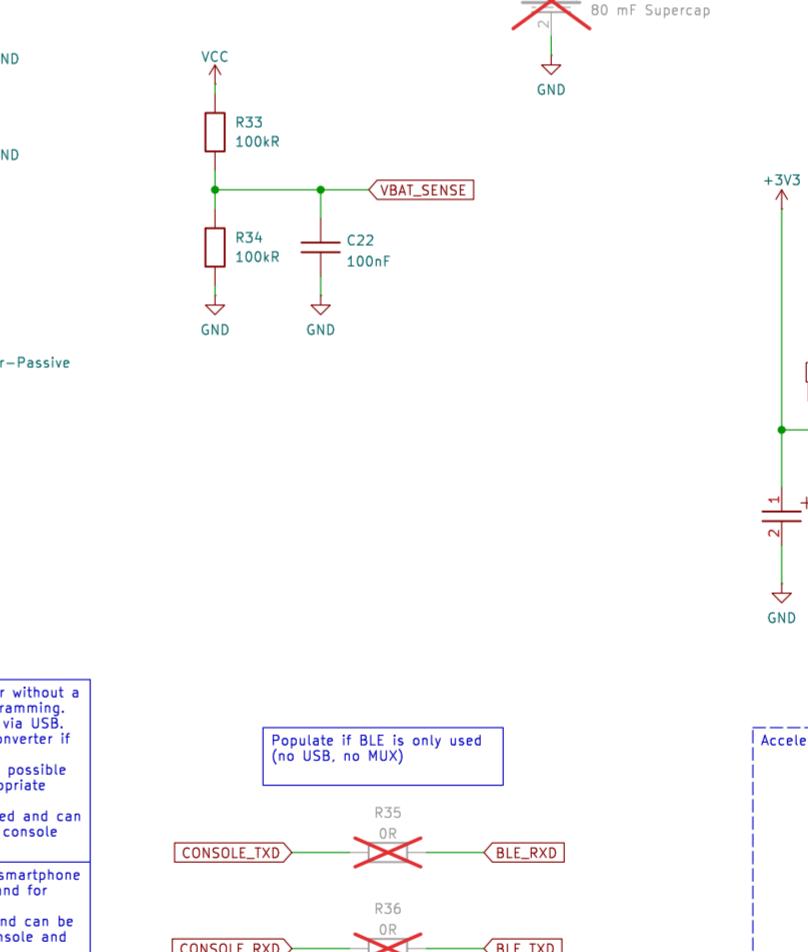
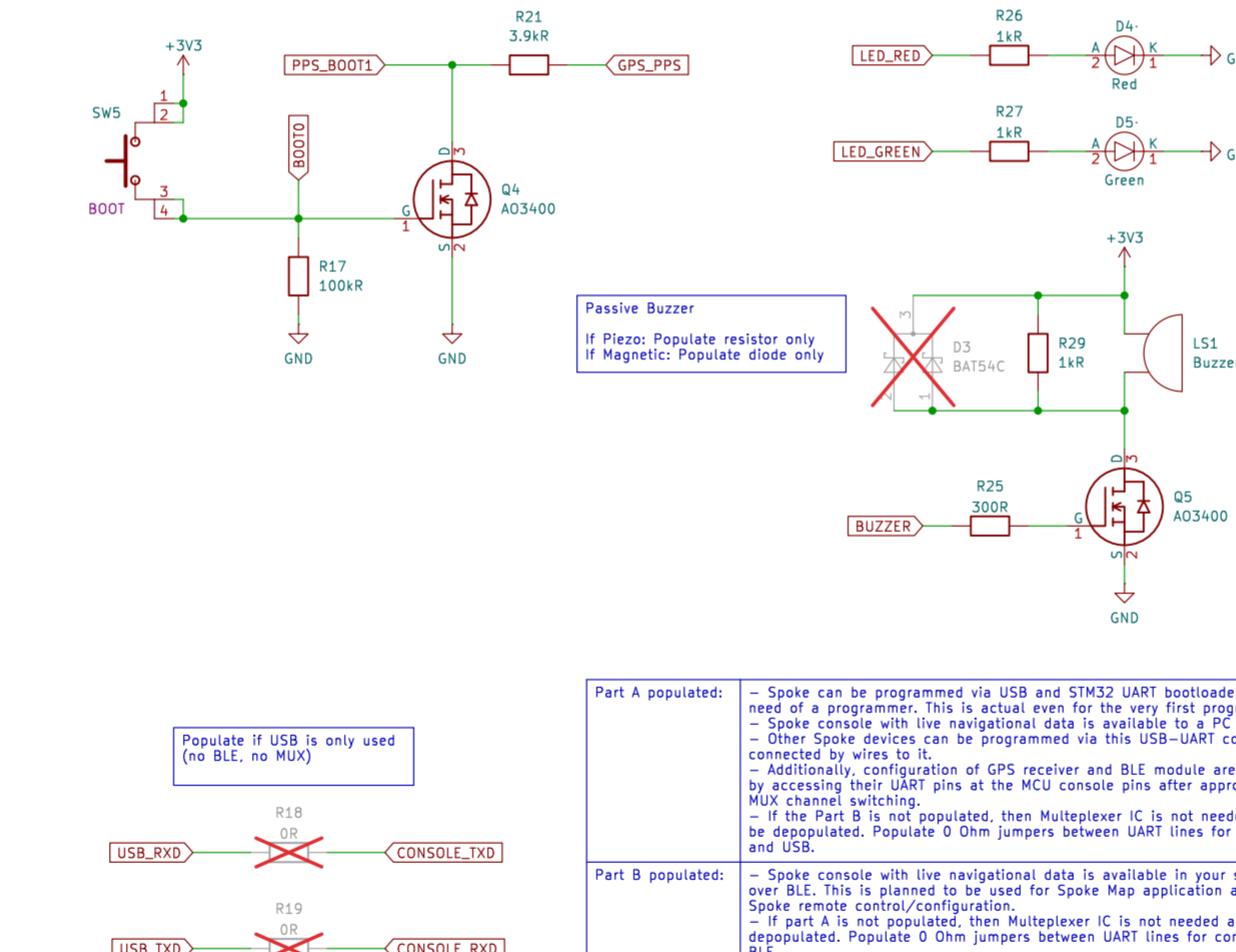
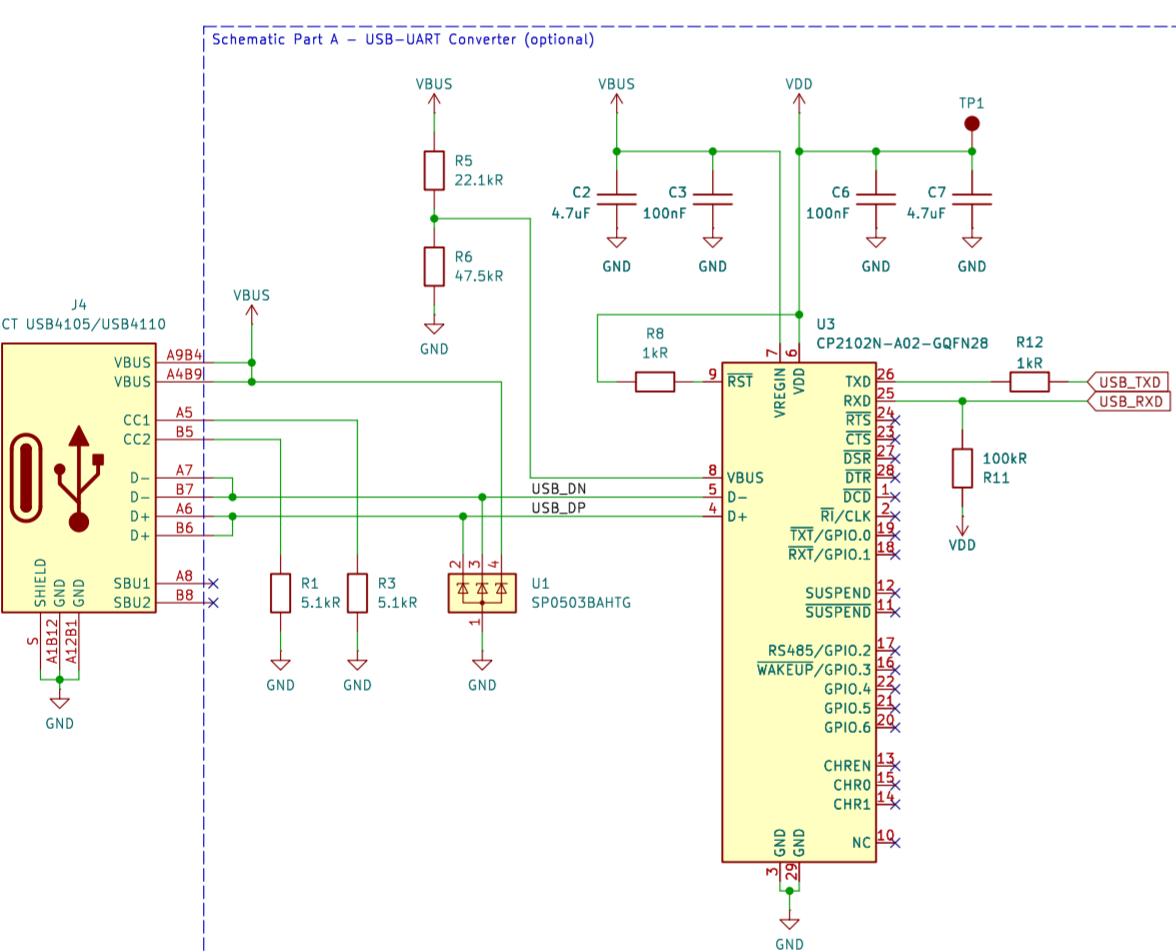


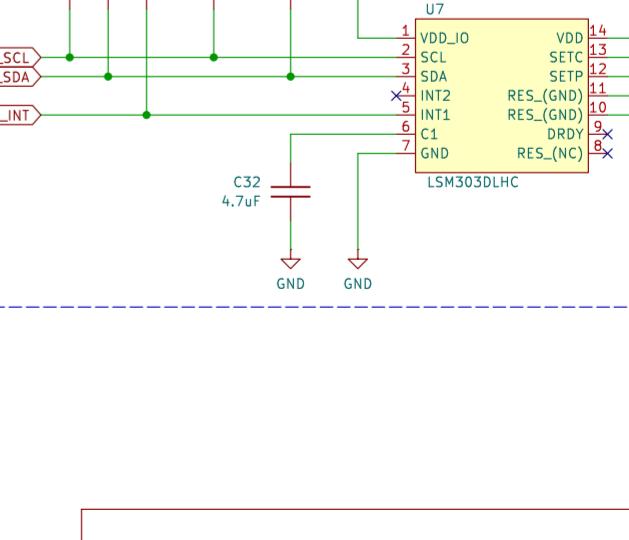
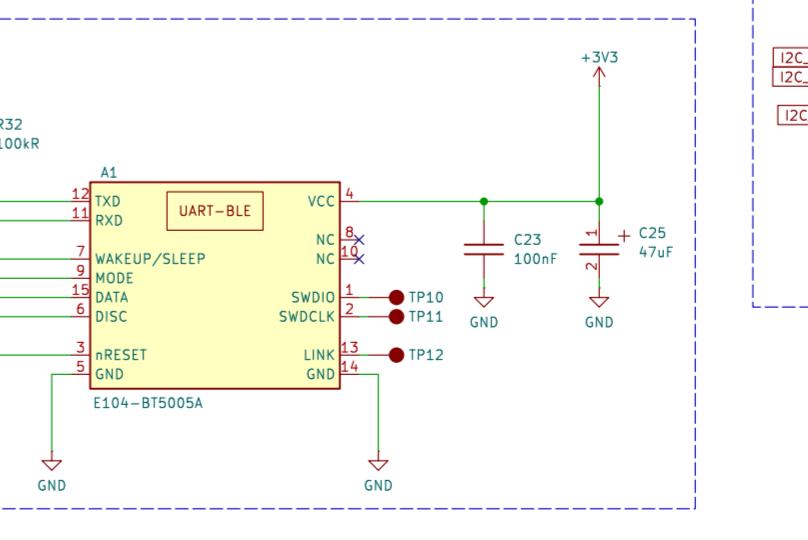
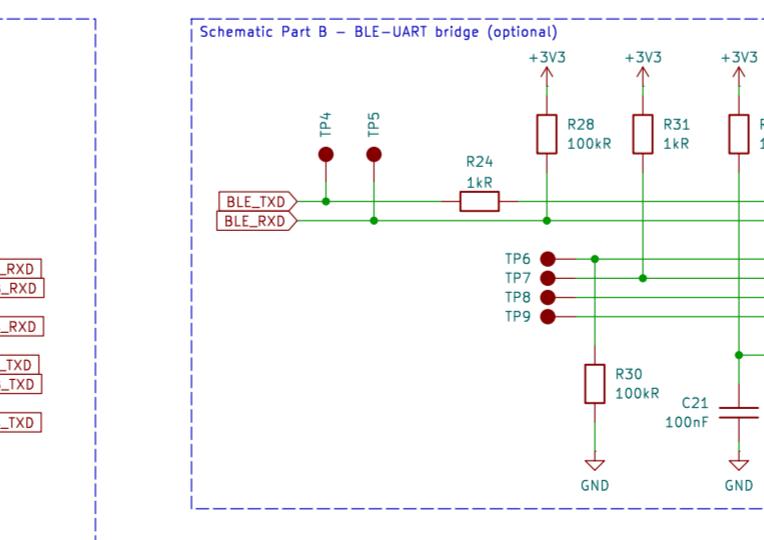
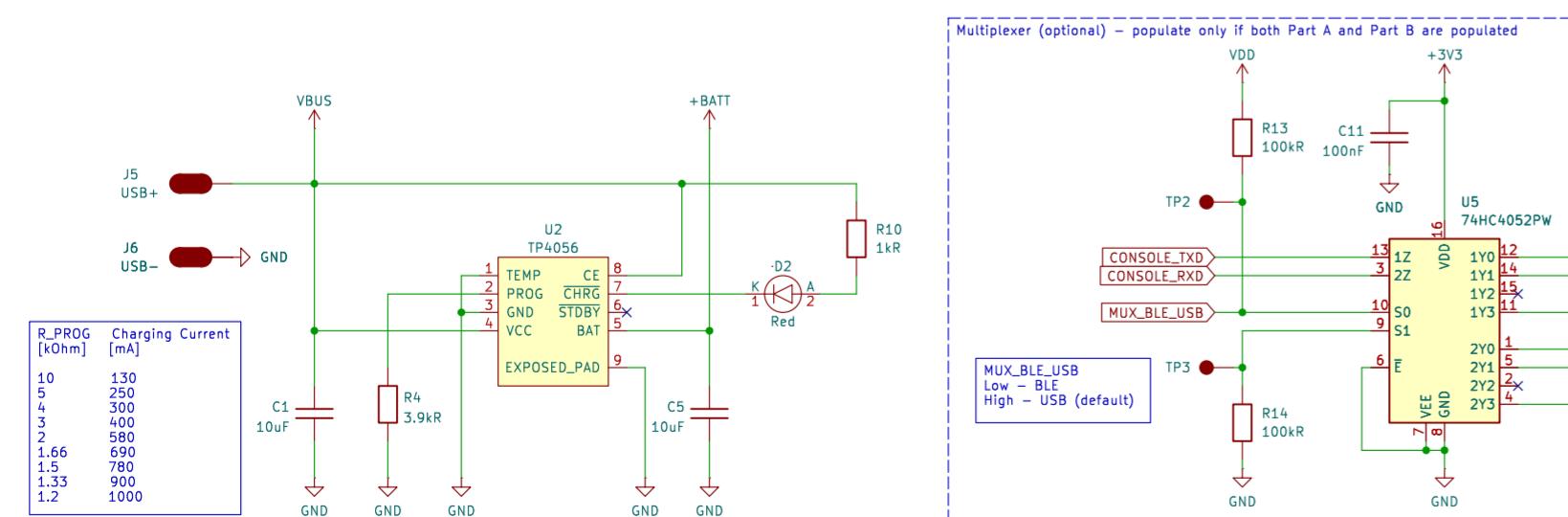
**Single Li-ion cell
DOUBLE CHECK CELL PINOUT BEFORE CONNECT!**



Populate this driver if backlight LED pins (Anode and Cathode) are directly available



GPS Module
Populate one of the suggested modules:
1) Module with wires: populate G10A-F30 or a different GPS module with wires
2) SMD module: populate TU10-F. The additional bypass circuit with supercapacitor ensures soft/warm start of the module. If not populated - only cold start is possible.



<https://github.com/FeruzTopalov>

Sheet: / File: spoke.kicad_sch

Title: LRNS_SPOKE

Size: A2 Date: 2026-01-17

KiCad E.D.A. 9.0.4 Rev: 2.1

GPS CONFIG MODE

1) Full Erase MCU

2) Pull M0 S1 high

3) Access GPS RX line at CONSOLE_RXD (see pin header)

4) Optionally, jumper wire to USB TX/RX pin header to access via USB-UART

BLE-UART CONFIG MODE

1) Full Erase MCU

2) Pull MUX_BLE_USB low

3) Access BLE RX line at CONSOLE_RXD (see pin header)

4) Optionally, jumper wire to USB TX/RX pin header to access via USB-UART

1) Full Erase MCU

2) Pull MUX_BLE_USB low

3) Access BLE RX line at CONSOLE_RXD (see pin header)

4) Optionally, jumper wire to USB TX/RX pin header to access via USB-UART

KiCad E.D.A. 9.0.4 Rev: 2.1

16: 1/1