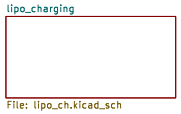
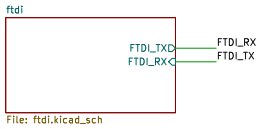
Zalmotek RA2E1 Feather SoM

Charger

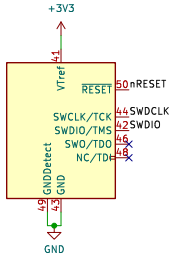


3V3 Buck/Boost

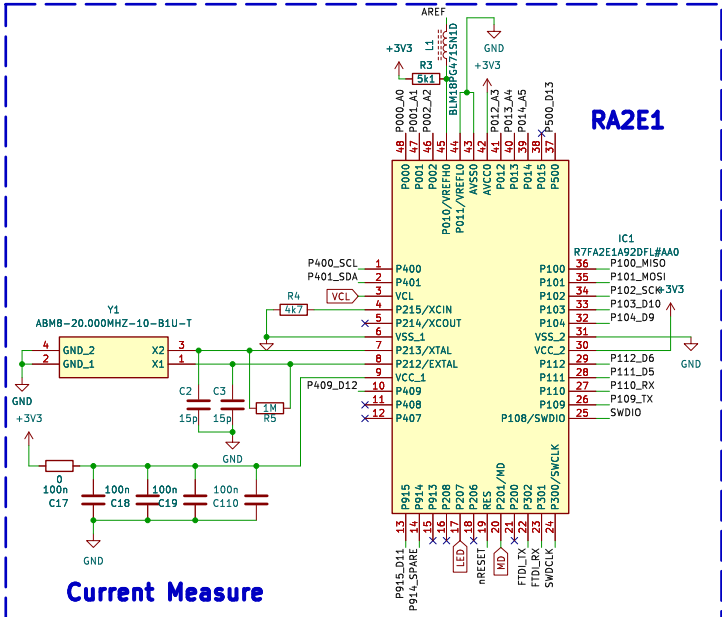
UART to USB



SWD Debug Connector

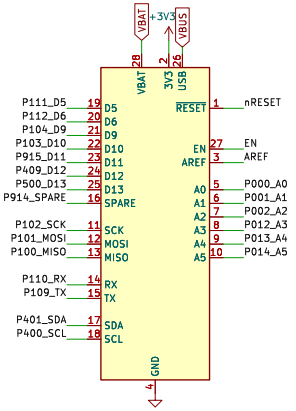


RA2E1

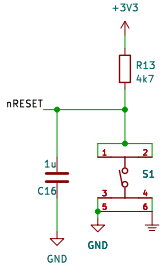


Current Measure

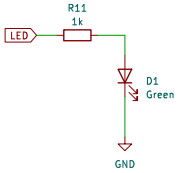
Feather Pinout



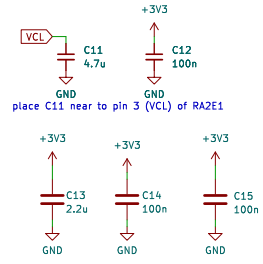
Reset Push-Button



User LED

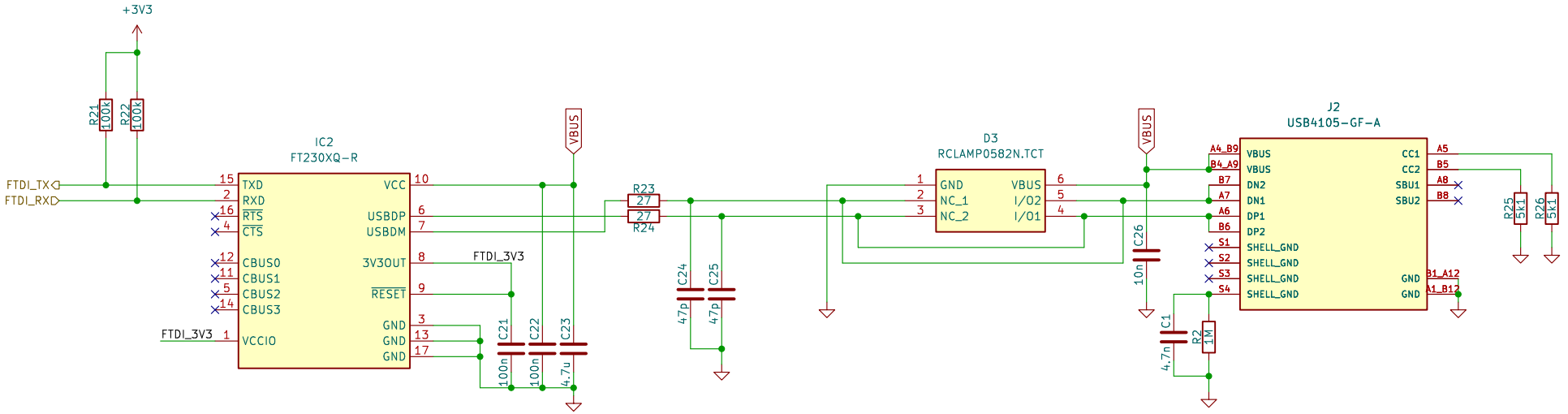


Decoupling



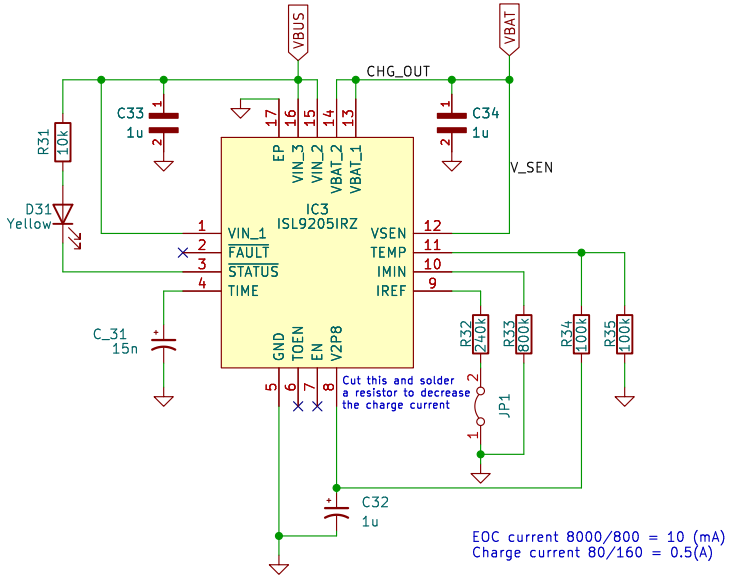
Zalmotek		
Sheet: /		
File: Feather-RA2E1.kicad_sch		
Title: RA2E1 Feather SoM		
Size: A3	Date: 2025-04-11	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 1/4

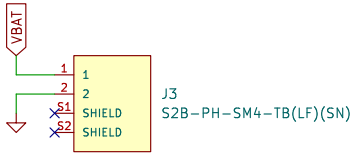
USB <-> UART



Zalmotek		
Sheet: /ftdi/		
File: ftdi.kicad_sch		
Title: RA2E1 Feather SoM		
Size: A4	Date: 2025-04-11	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 2/4

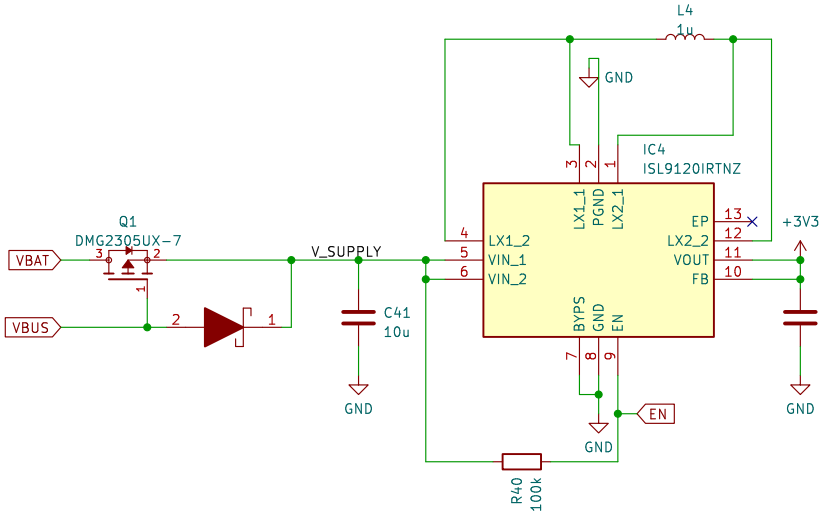
LiPo Charging





Zalmotek		
Sheet: /lipo_charging/		
File: lipo_ch.kicad_sch		
Title: RA2E1 Feather SoM		
Size: A4	Date: 2025-04-11	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 3/4

Buck/Boost 3v3



Non Adjustable Version FB pin Connection
+ P-MOSFET for power supply switching

Extra documentation about Bypass and Enable pin

Zalmotek

Sheet: /power/
File: power.kicad_sch

Title: RA2E1 Feather SoM

Size: A4	Date: 2025-04-11	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 5/4