



Battery Battery Protection and Charging



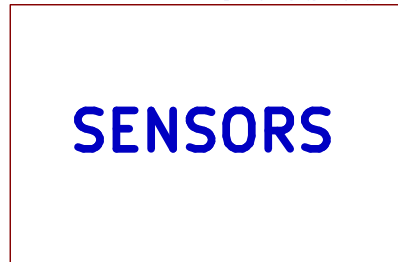
File: Power.kicad_sch

GNSS GNSS Module



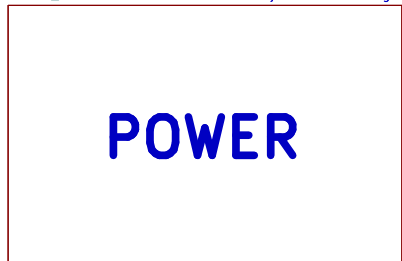
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Sensors Environmental Monitoring



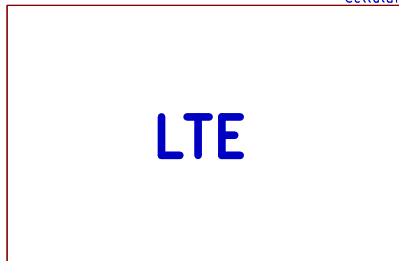
File: Sensors.kicad_sch

Power_M Power Circuitry and Fuel Gauge



File: Power_M.kicad_sch

LARA-R6 Cellular



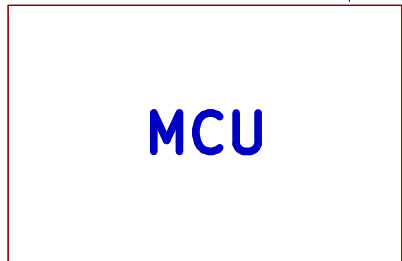
File: LARA_R6.kicad_sch

NRF 2.4 GHz RF Link



File: NRF.kicad_sch

MCU STM32F4 MCU and Peripherals



File: MCU.kicad_sch

LARA_ANT Cellular Antennas



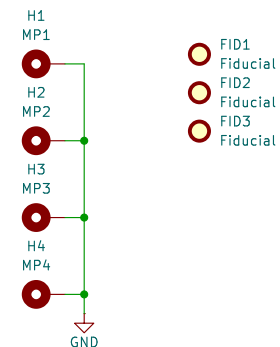
File: LARA_ANT.kicad_sch

USBC USB + SWD



File: USBC.kicad_sch

MECHANICAL



PROTOTYPE

Sheet: /
File: Asset_Tracking_STM32.kicad_sch

Title: Root

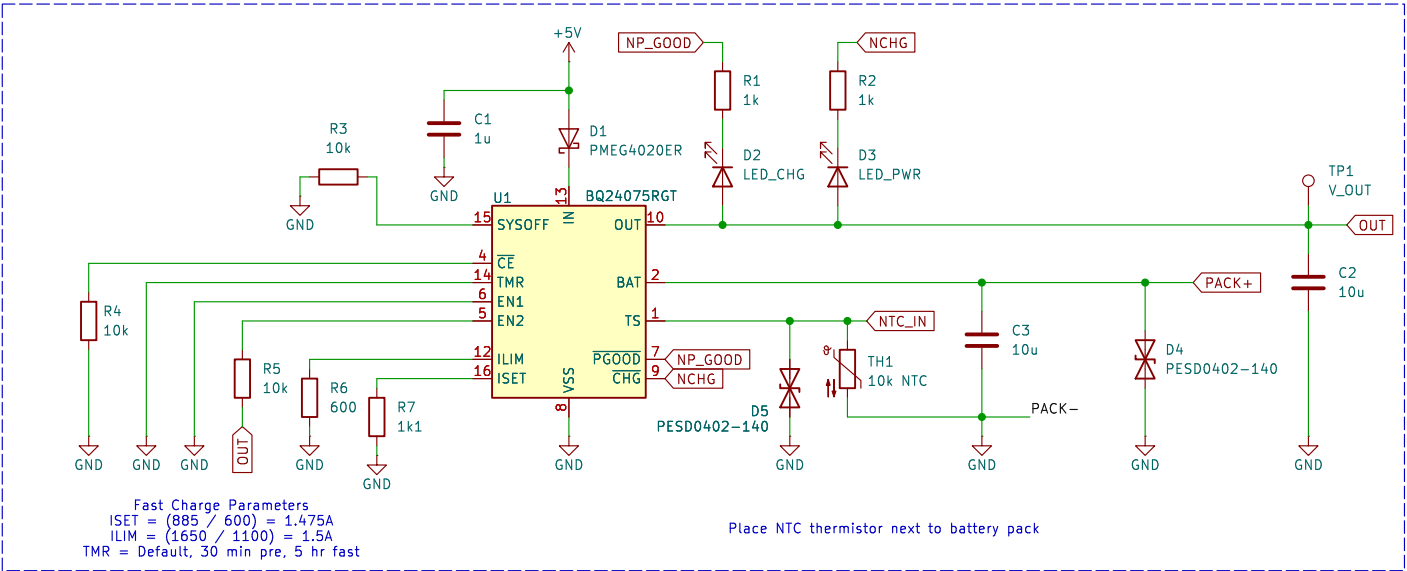
Size: A4 Date: 2024-07-23

KiCad E.D.A. 8.0.4

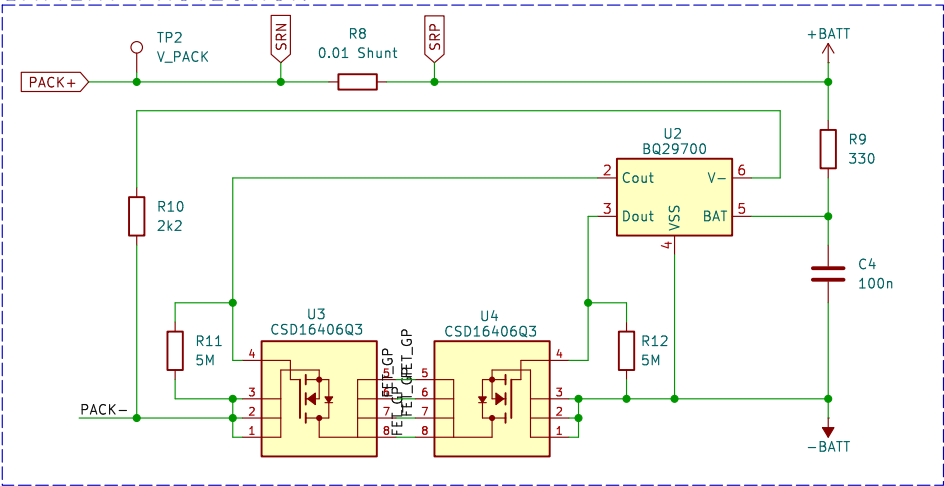
Rev: 1.0.0

Id: 1/10

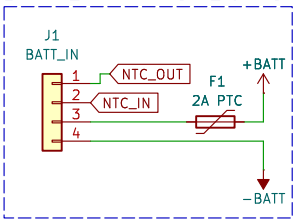
BATTERY CHARGER



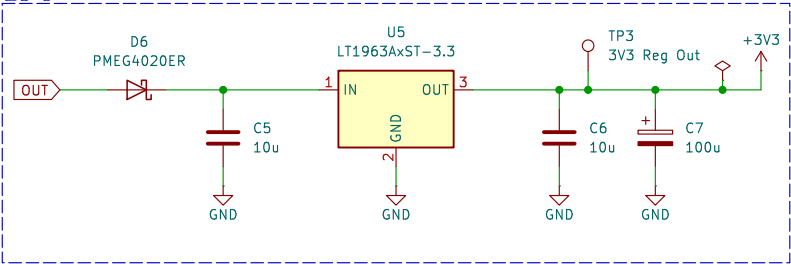
BATTERY PROTECTION



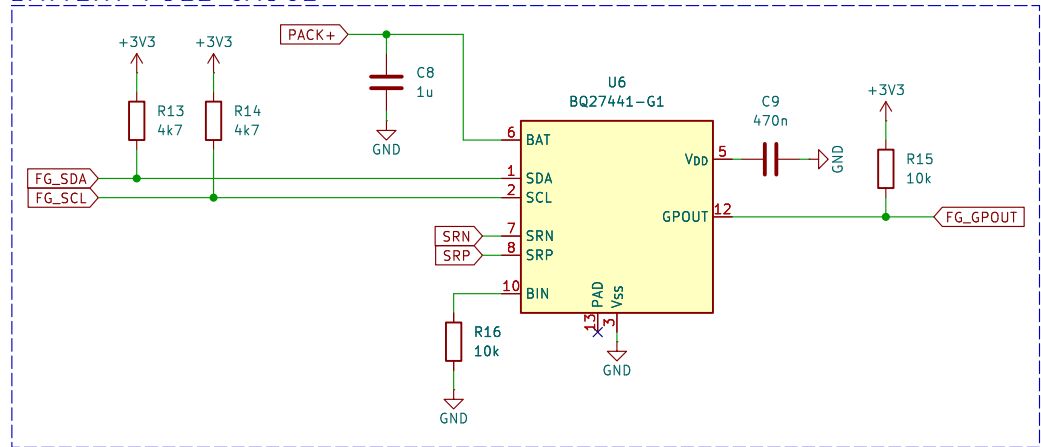
BATTERY PROTECTION



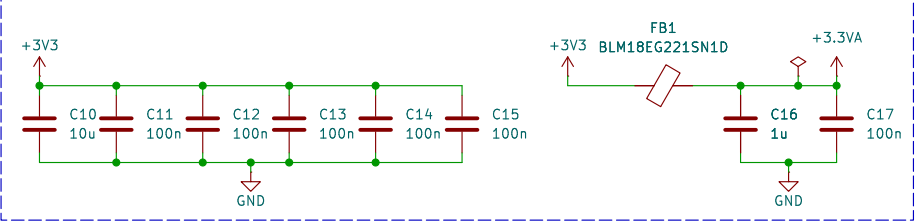
LDO



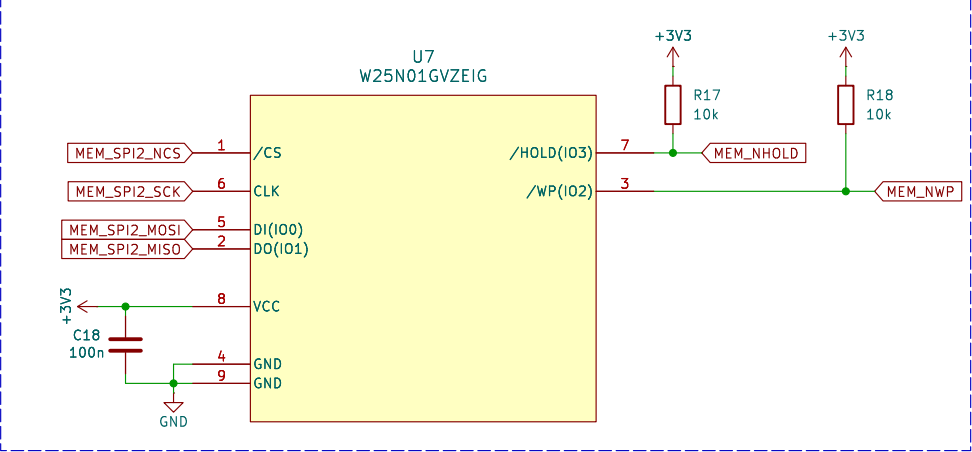
BATTERY FUEL GAUGE



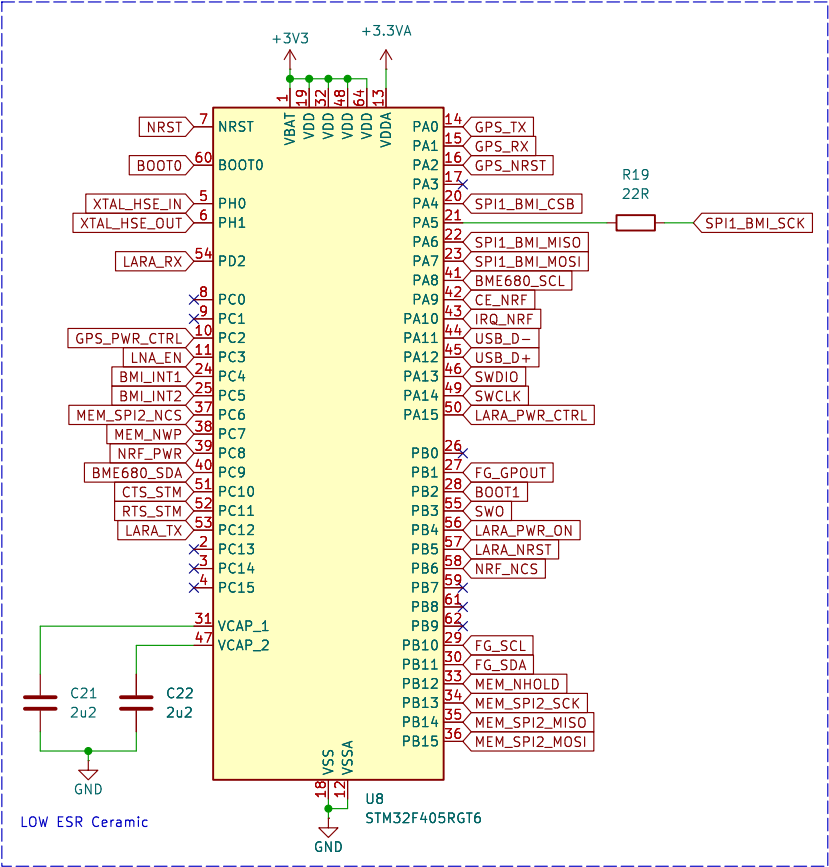
DECOUPLING (VDD,VDDA)



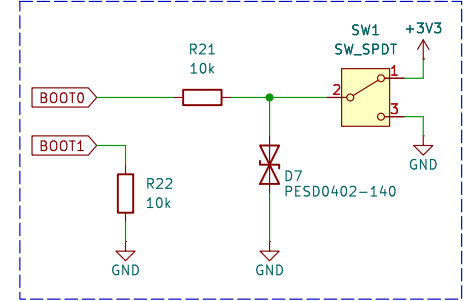
FLASH



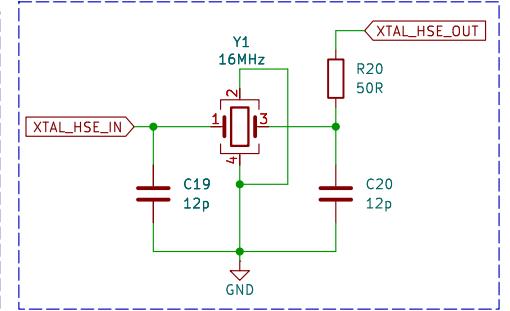
STM32F4 MCU



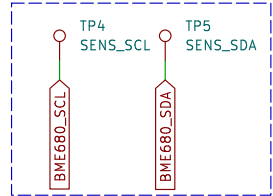
BOOT MODE



XTAL HSE



MCU TEST POINTS



Sheet: /MCU/
File: MCU.kicad_sch

Title: MCU

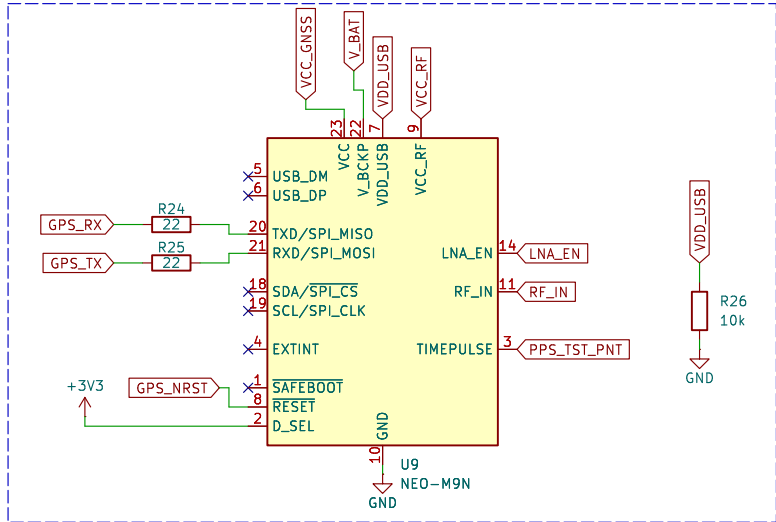
Size: A4 Date: 2024-07-25

KiCad E.D.A. 8.0.4

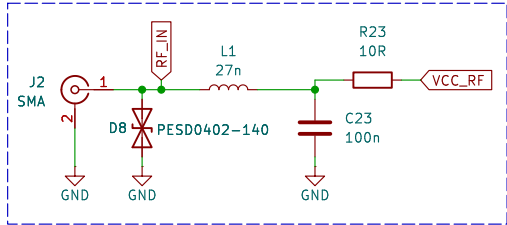
Rev: 1.0.0

Id: 4/10

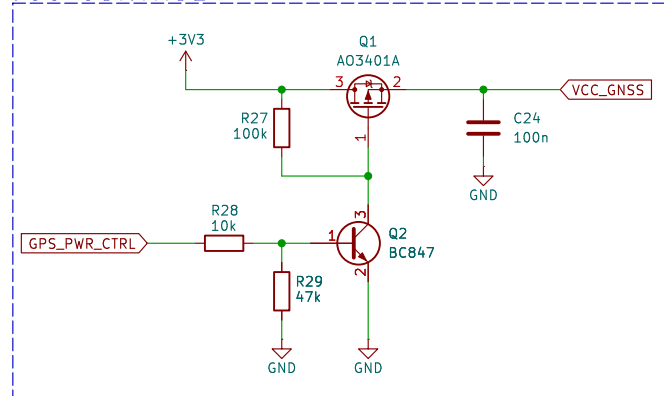
NEO-M9N



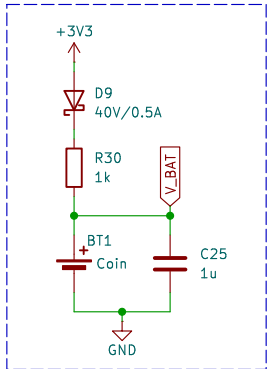
SMA BIAS-T



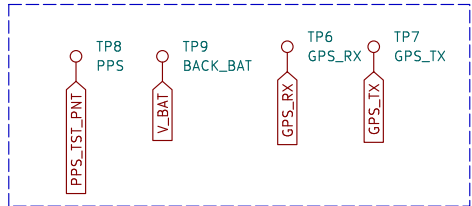
VCC CONTROL



GPS BACKUP



GPS TEST



Sheet: /GNSS/
File: GNSS.kicad_sch

Title: GNSS

Size: A4

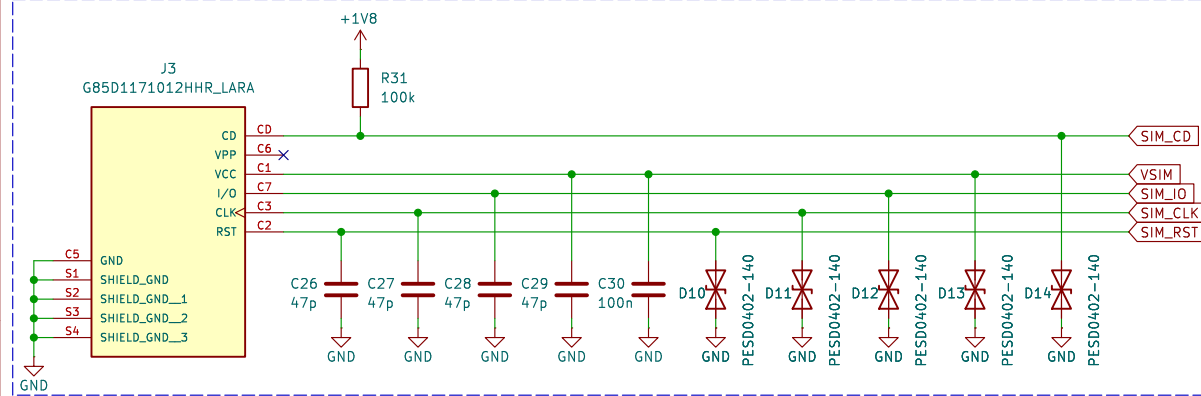
Size: A4	Date: 2024-07-25
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KiCad E.D.A. 8.0.4

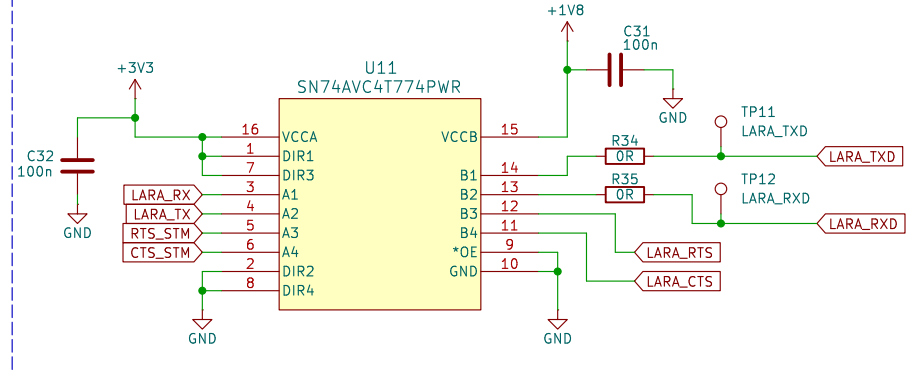
Rev: 1.0.0

Id: 5/10

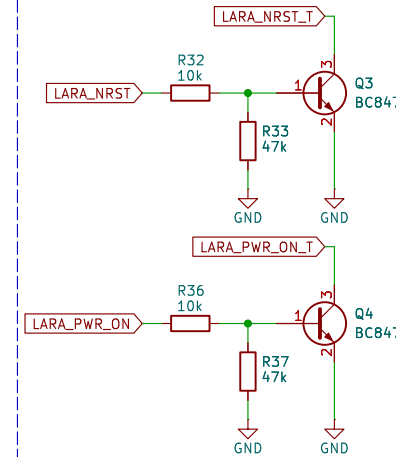
NANO SIM + ESD



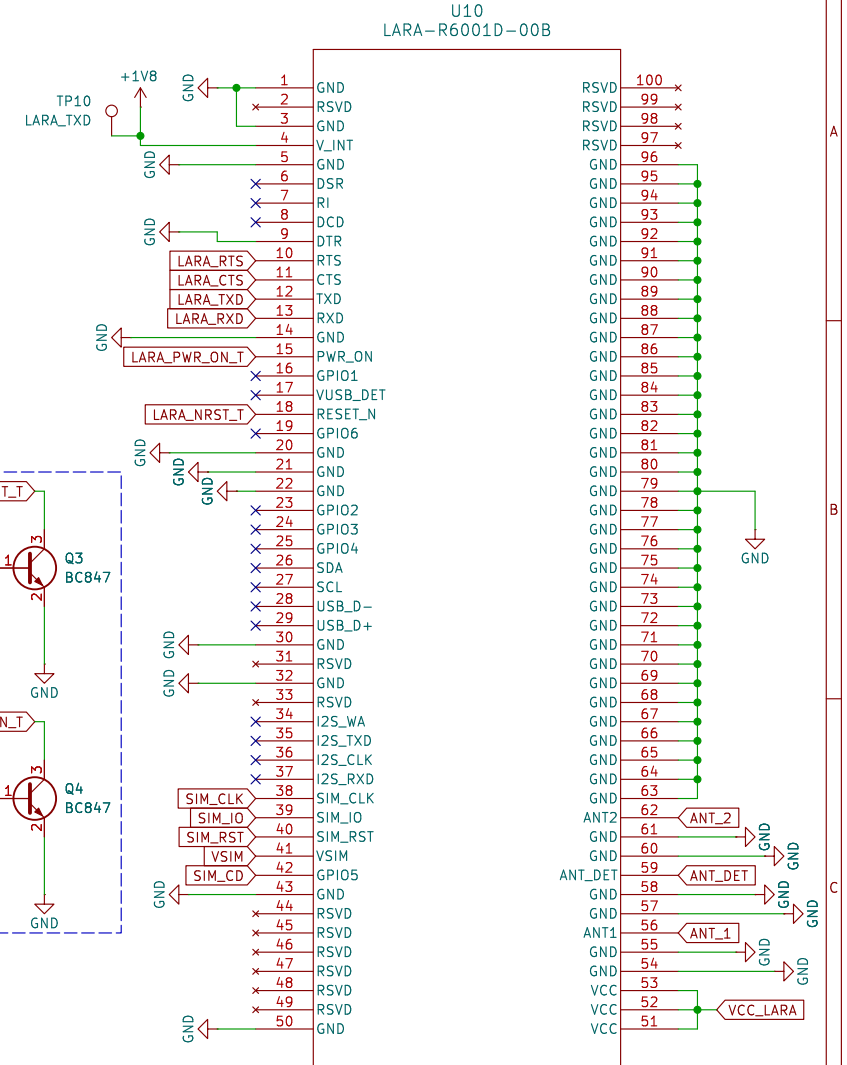
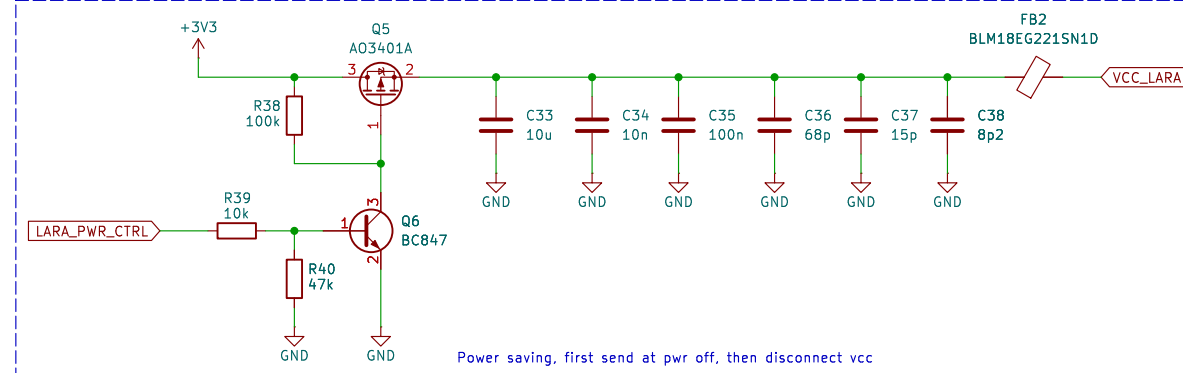
LEVEL SHIFTING



IO CONTROL



VCC CONTROL



Sheet: /LARA-R6/
File: LARA_R6.kicad_sch

Title: Lara-R6

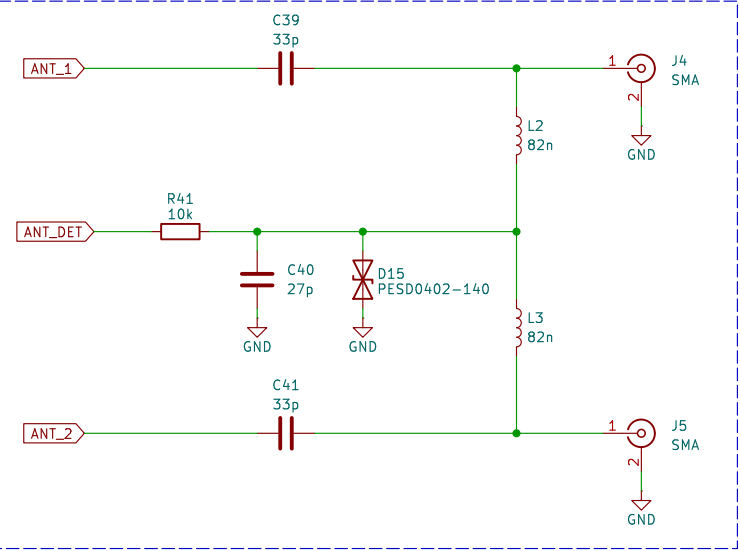
Size: A4 Date: 2024-07-25

KiCad E.D.A. 8.0.4

Rev: 1.0.0

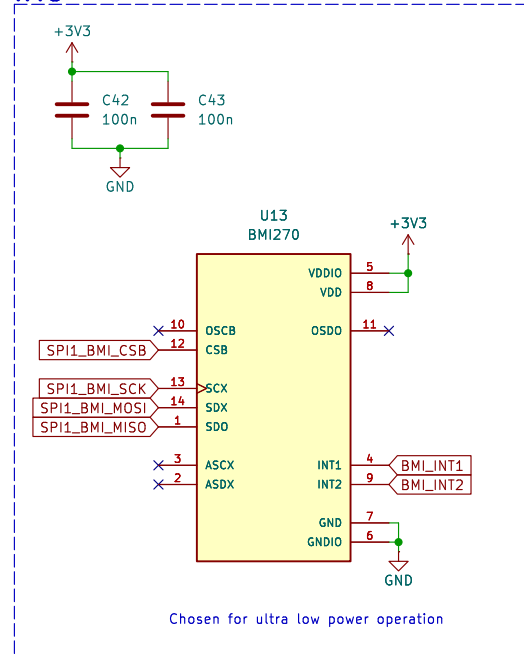
Id: 6/10

LARA ANTENNAS + MATCHING

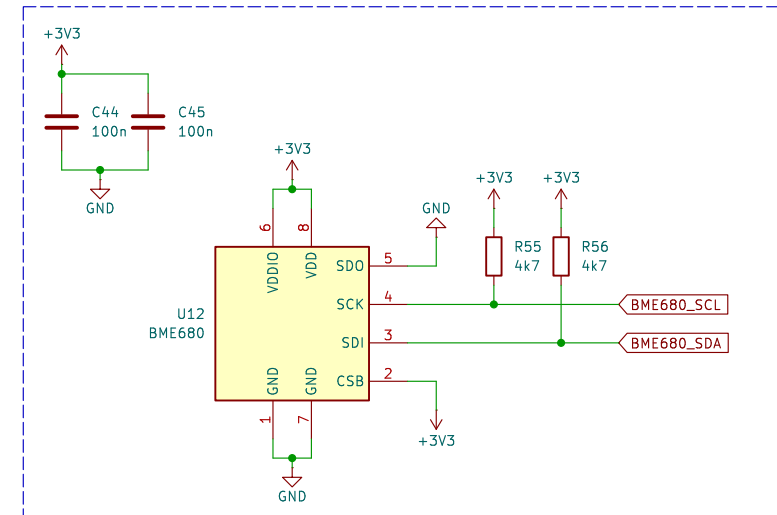


Sheet: /LARA_ANT/ File: LARA_ANT.kicad_sch		
Title: LARA Antennas		
Size: A4	Date: 2024-07-27	Rev: 1.0.0
KiCad E.D.A. 8.0.4	Id: 7/10	

IMU



GAS, HUMIDITY, PRESSURE, TEMPERATURE SENSOR



Sheet: /Sensors/
File: Sensors.kicad_sch

Title: Sensors

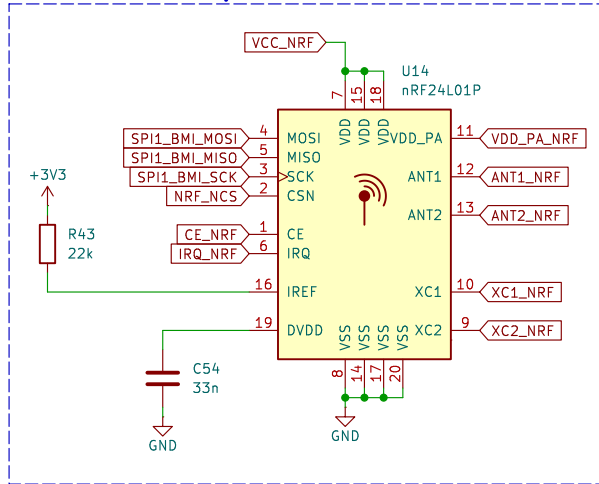
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KiCad E.D.A. 8.0.4

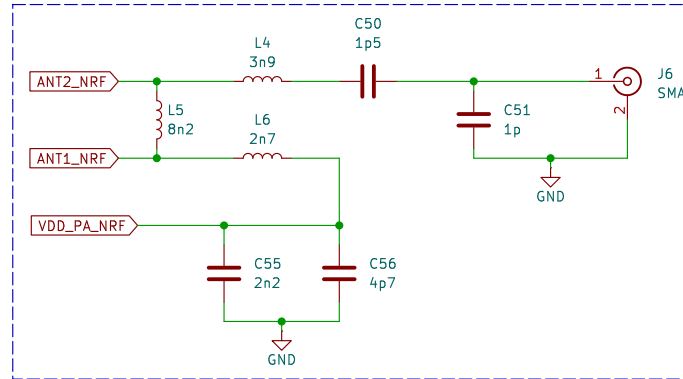
Rev: 1.0.0

Id: 8/10

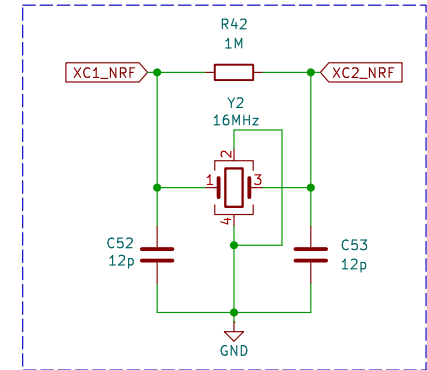
NRF24L01P TX/RX



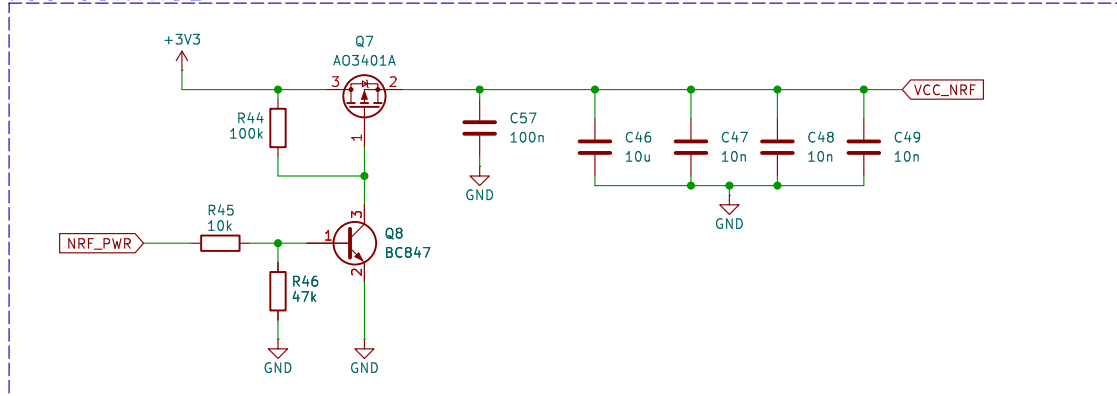
ANT MATCHING NETWORK



XTAL NRF



VCC CONTROL



Sheet: /NRF/
File: NRF.kicad_sch

Title: NRF

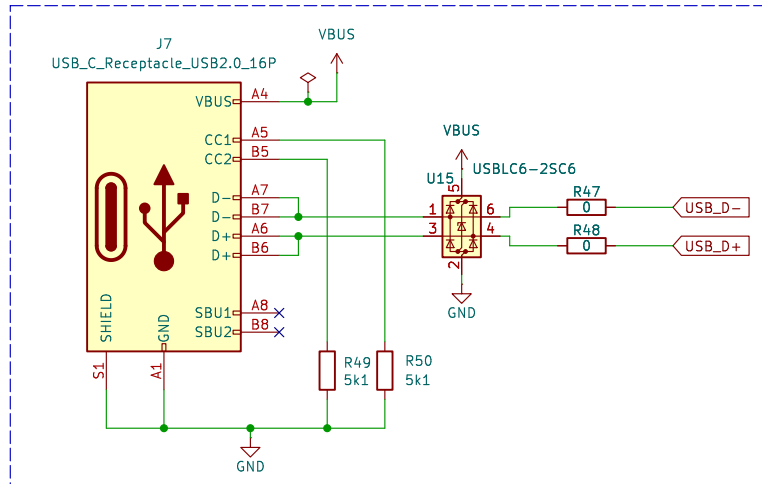
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KiCad E.D.A. 8.0.4

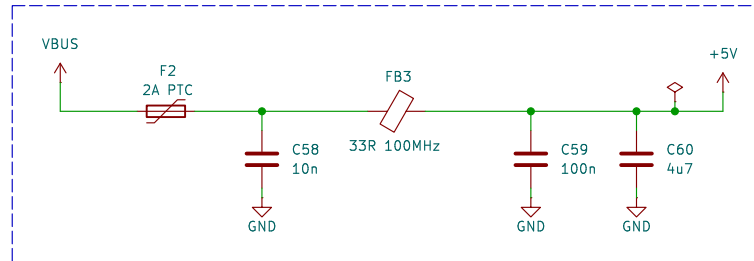
Rev: 1.0.4

Id: 9/10

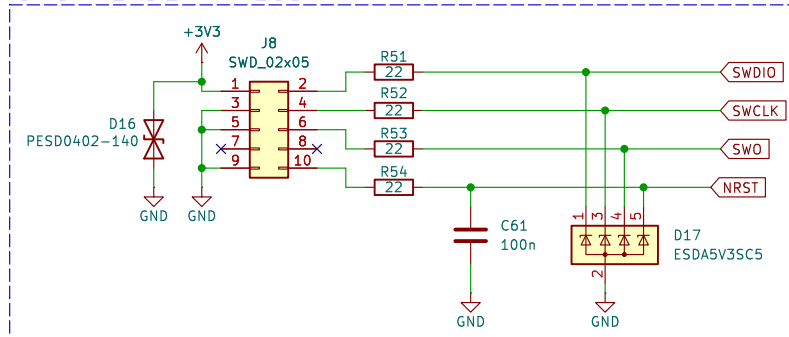
USB-C INPUT + ESD



VBUS INPUT FILTERING



SWD HEADER + ESD



Sheet: /USBC/
File: USBC.kicad_sch

Title: USB-C

Size: A4 Date: 2024-07-25

KiCad E.D.A. 8.0.4

Rev: 1.0.0

Id: 10/10