

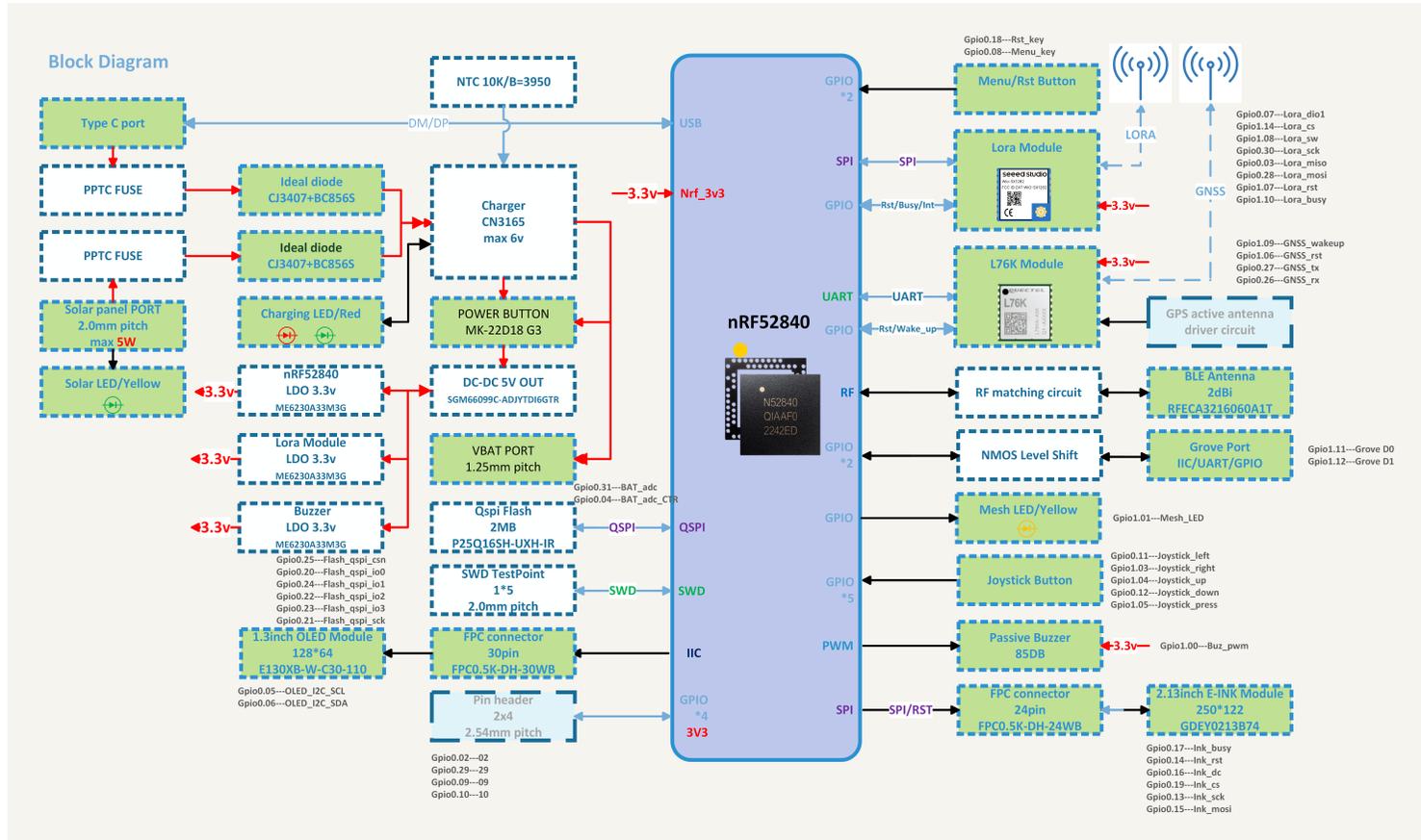
Revision History
File: Revision_History.kicad_sch

POWER
File: POWER.kicad_sch

Module
File: Module.kicad_sch

Display&Buzzer
File: Display&Buzzer.kicad_sch

nRF52840
File: nRF52840.kicad_sch



seeed studio

Sheet: /
File: Meshtastic Repeater_Handle.kicad_sch

Title: Meshtastic Repeater_Handle

Size: A4

Date:

KiCad E.D.A. 9.0.0

Rev: v1.3

Id: 1/6

DATE	REVISION	DESCRIPTION
2025.03.13	v1.01	1.Initial Release.
2025.04.17	v1.1	<ul style="list-style-type: none"> 1.Change solar interface J1 to 2.0mm pitch; 2.Add magnetic beads FB6 to power of Lora module to solve EMC issues; 3.Add RC for Grove port, to solve EMC issues; 4.Revise the Q12 source and drain connection error issue; 5.DNP Q14,Change the reset logic of the ink screen to low effective; 6.Change the voltage division ratio of R20:R21 resistor to 1:1; 7.Add a 100k R90 pull-up resistor to the menu button; 8.Delete duplicate INK BUSY network from W24; 9.Modify U11 pin_c1 network connection issue; 10.Add TVS protection for buttons and peripheral interfaces; 11.Change product silkscreen and FCC ID; 12.Change U11 SWD interface to 1x5 pin header; 13.Add RF shielding frame clip for SOC;
2025.05.14	v1.2	<ul style="list-style-type: none"> 1.Add L7 for RSE issue; 2.Change R39 from 39r to 10r ,increase the volume of the buzzer; 3.Change R10&R11 to diode ,for charge issue; 4.Delete R54 R56 R57 R58; 5.Change L1 PCB footprint,far away LORA rf port;
2025.05.28	v1.3	<ul style="list-style-type: none"> 1.Add D4 R10 C99 C100 for Voltage drop issue;

seeed studio

Sheet: /Revision History/

File: Revision History.kicad_sch

Title: Meshtastic Repeater_Handle

Size: A4

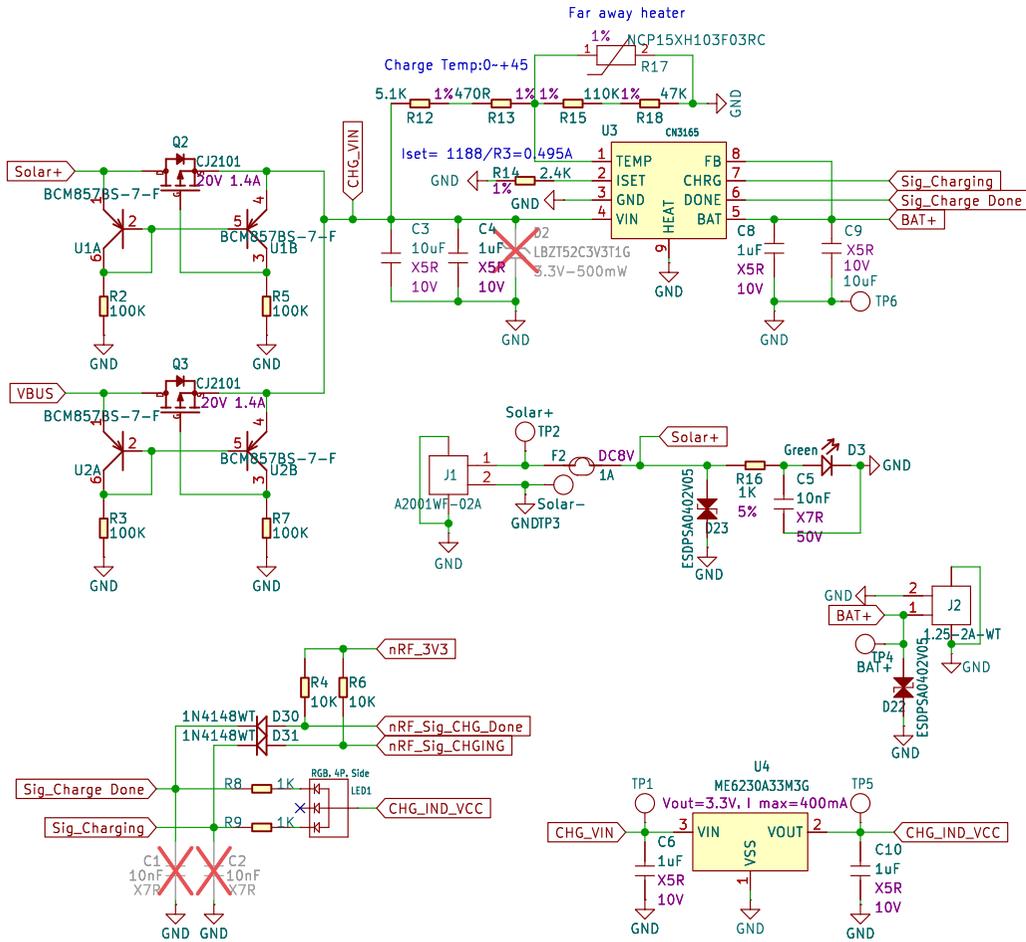
Date:

Rev: v1.3

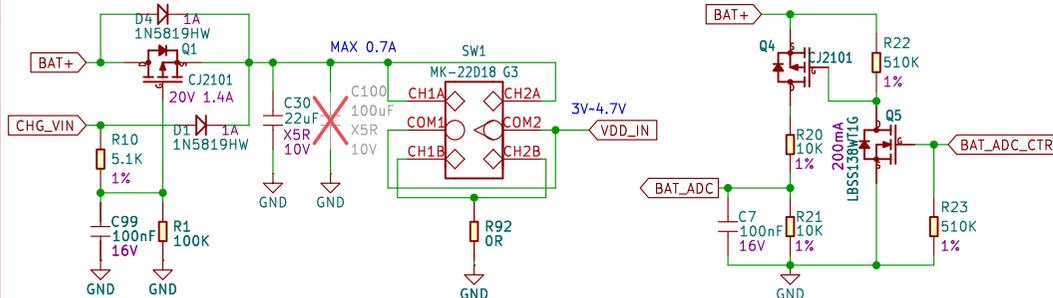
KiCad E.D.A. 9.0.0

Id: 2/6

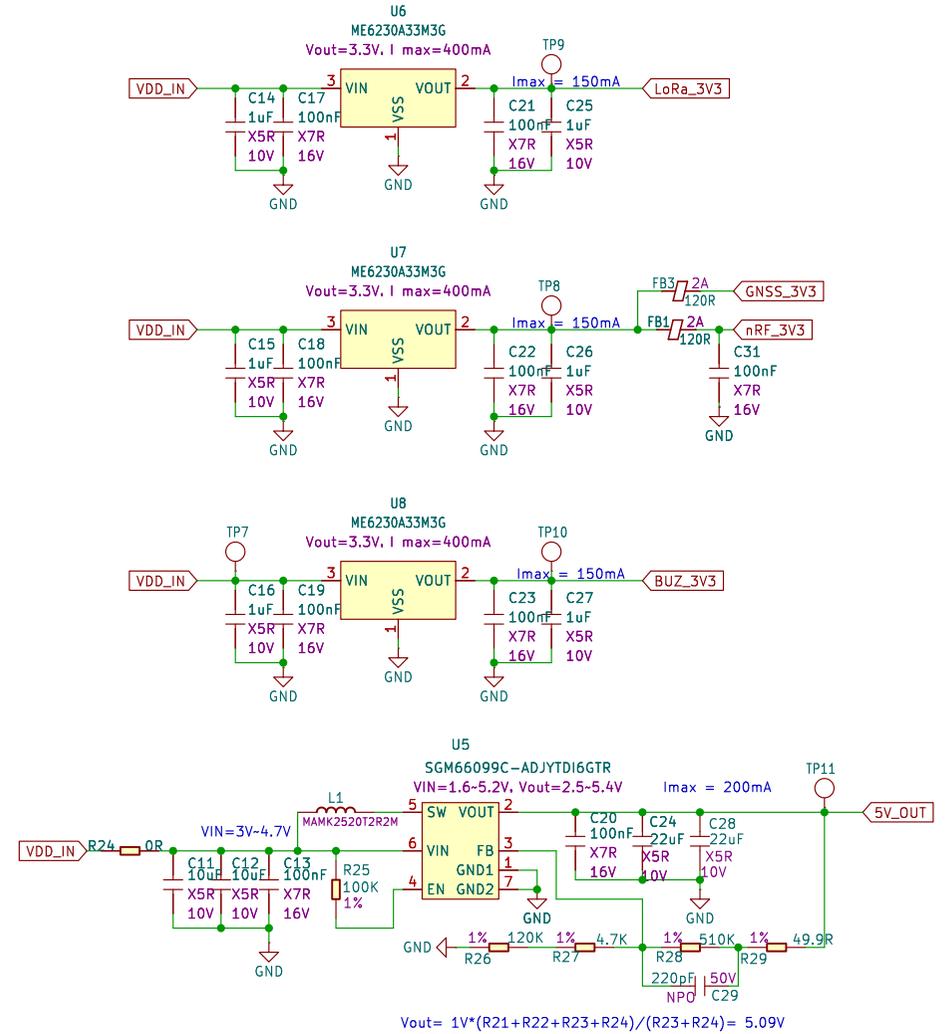
BAT Charger



Power Switch



Power Change



seed studio

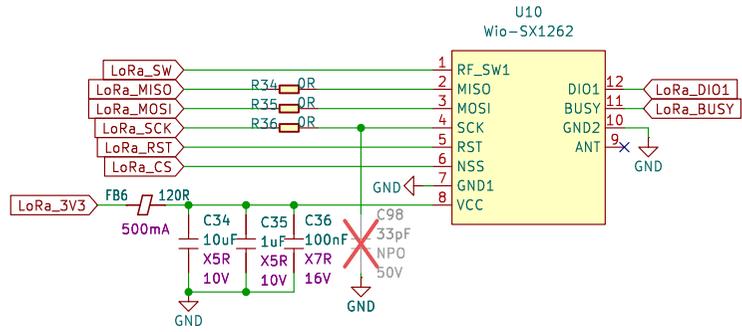
Sheet: /POWER/
File: POWER.kicad_sch

Title: Meshtastic Repeater_Handle

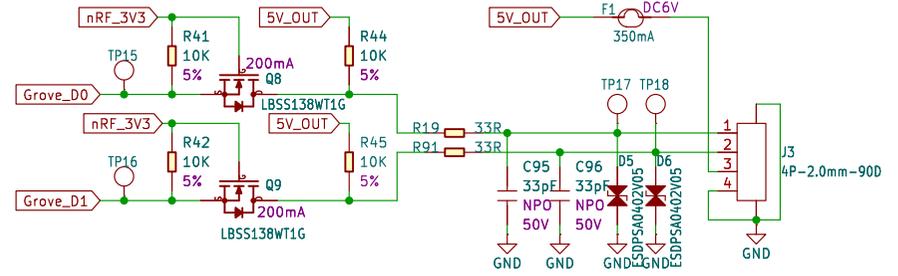
Size: A4
KiCad E.D.A. 9.0.0

Date:
Rev: v1.3
Id: 3/6

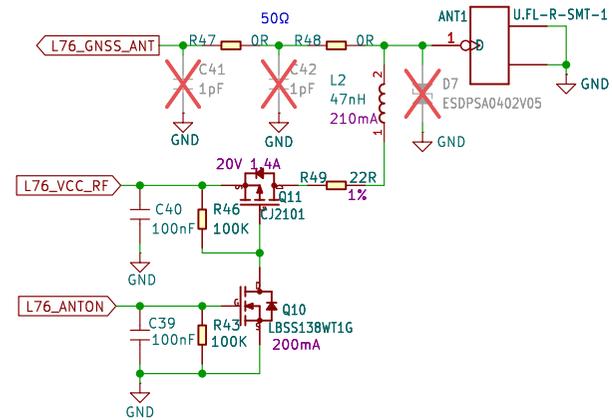
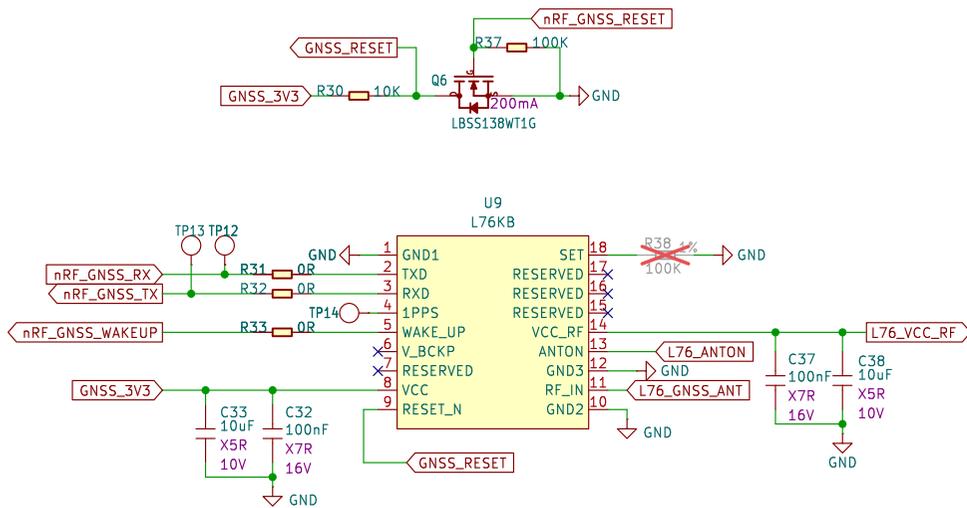
LoRa



Grove



GNSS



seeed studio

Sheet: /Module/
File: Module.kicad_sch

Title: Meshtastic Repeater_Handle

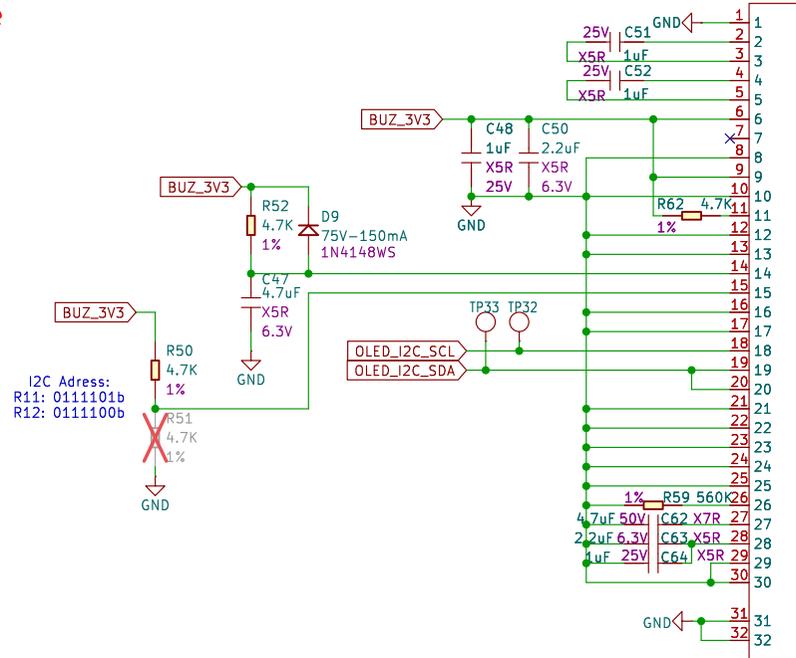
Size: A4
KiCad E.D.A. 9.0.0

Date:

Rev: v1.3

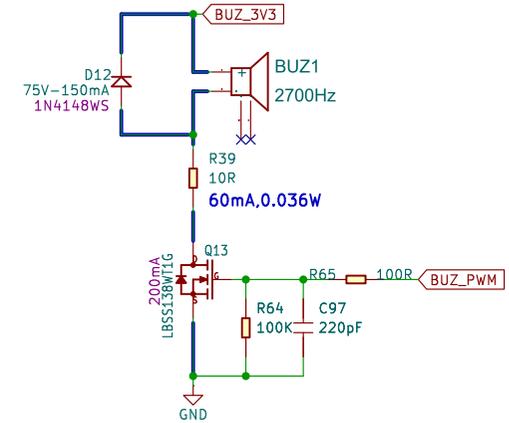
Id: 4/6

OLED Interface

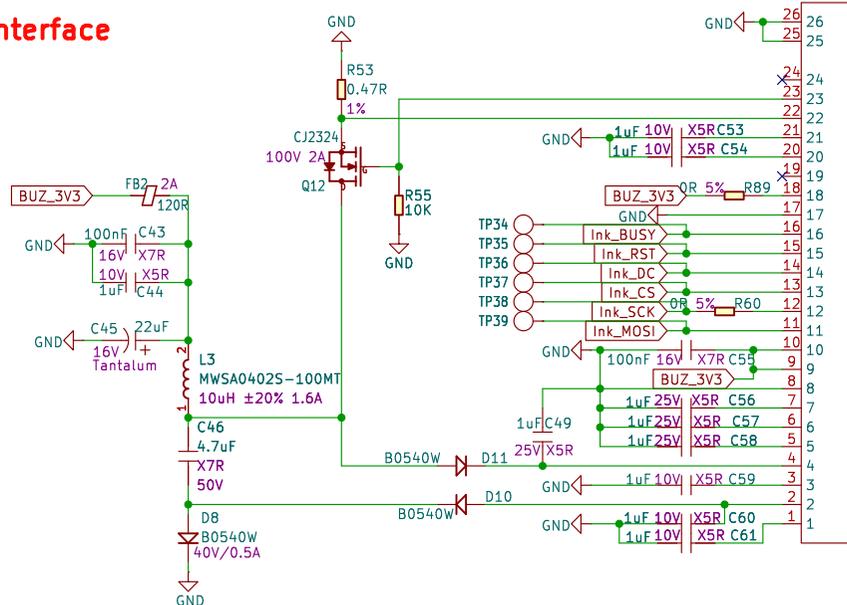


J7
FPC 30P TOP contact
30P, 1A

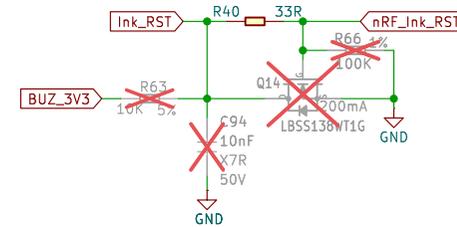
Buzzer



Ink screen Interface



J8
FPC 24P TOP contact
24P, 1A



seed studio

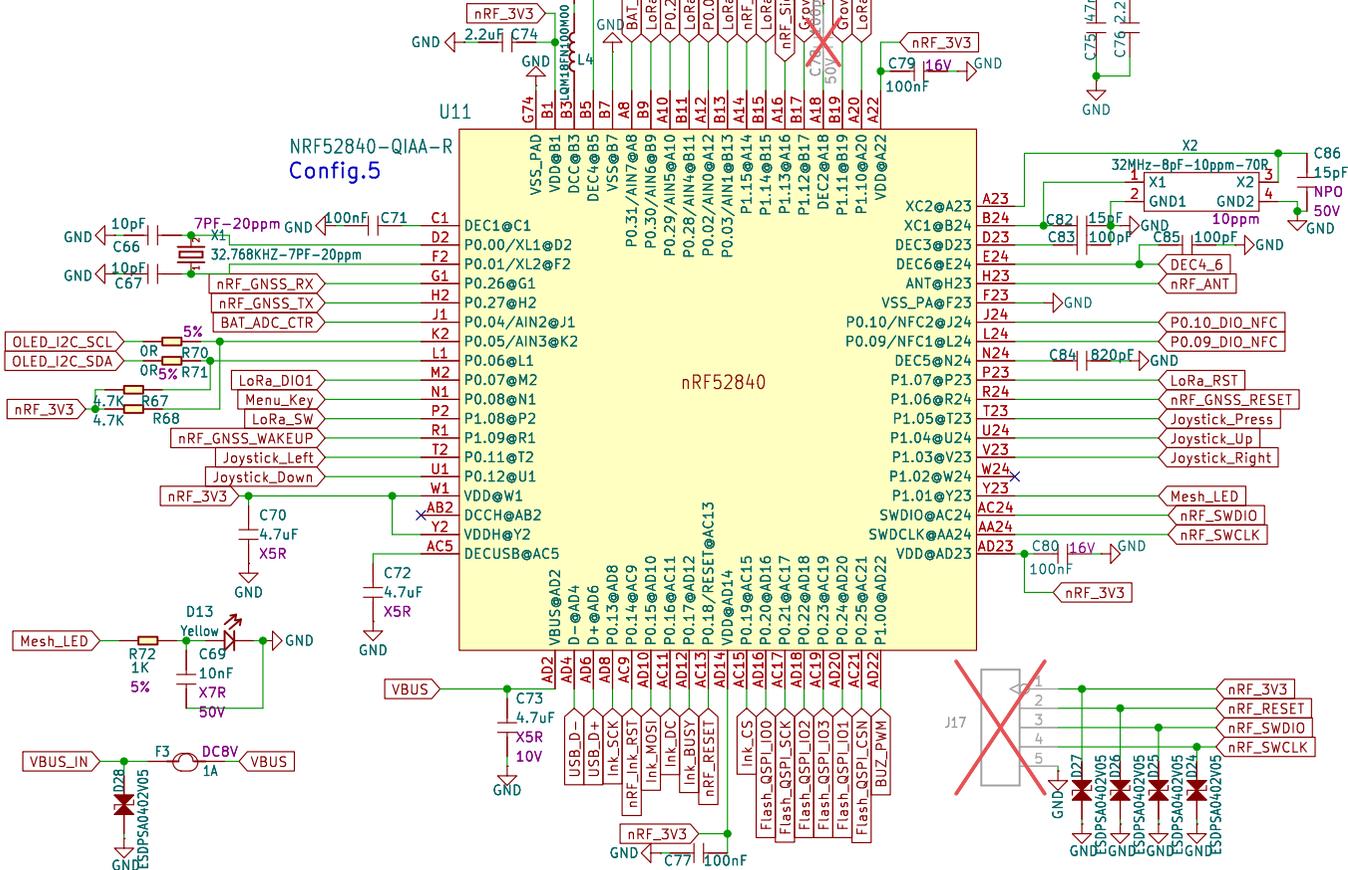
Sheet: /Display&Buzzer/
File: Display&Buzzer.kicad_sch

Title: Meshtastic Repeater_Handle

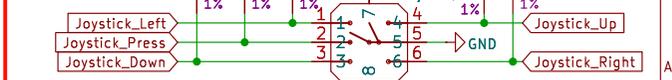
Size: A4
KiCad E.D.A. 9.0.0

Date:
Rev: v1.3
Id: 5/6

nRF52840



Joystick



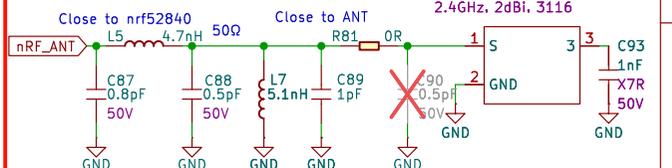
RESET_Key



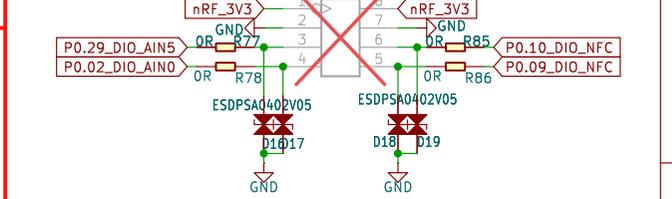
Menu_Key



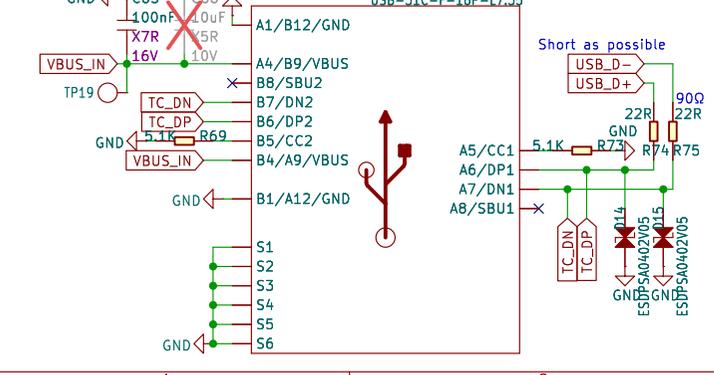
ANT



User Interface



USB



Flash



seeed studio

Sheet: /nRF52840/ File: nRF52840.kicad_sch	
Title: Meshtastic Repeater_Handle	
Size: A4	Date:
KiCad E.D.A. 9.0.0	Rev: v1.3
	Id: 7/6