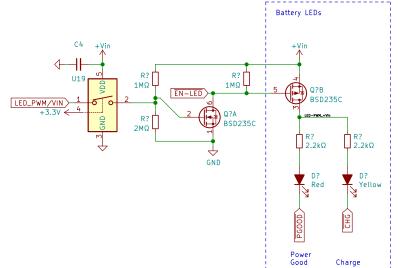
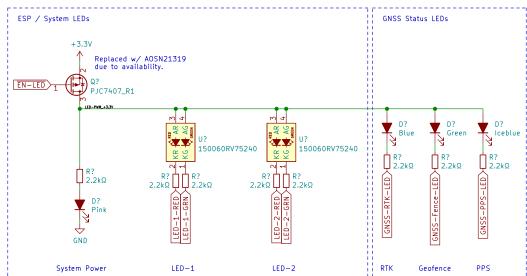
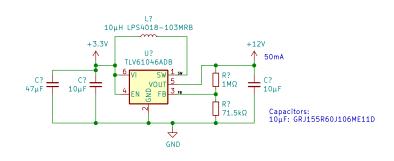


LEDs



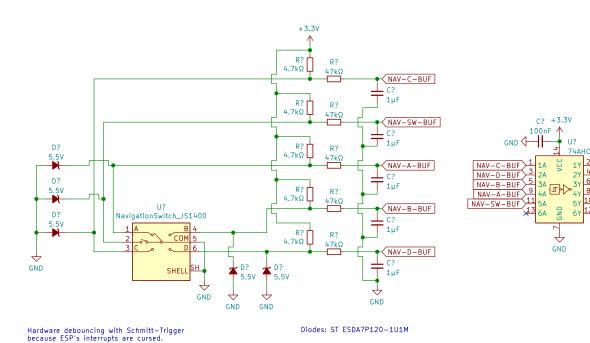


12V Step Up (for OLED)

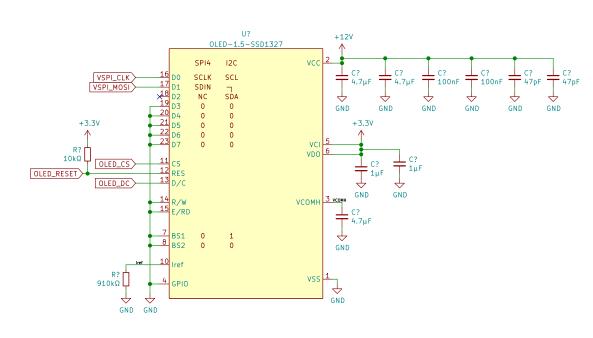


Nav Switch

https://github.com/espressif/arduino-esp32/issues/4172



1.5" OLED Screen



Sheet: /User Interface/
File: ui.kicad_sch

Title: GNSS

Size: A3 Date: Rev: B

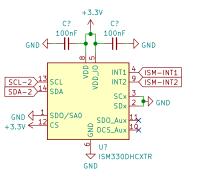
KiCad E.D.A. eeschema (6.0.4-0) Id: 2/9

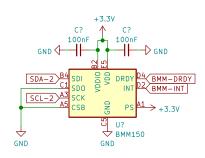


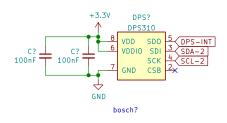
BMM150 Magnetometer (3 DoF)

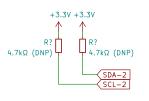
DPS310 Pressure Sensor (1 DoF)

12C Pullups

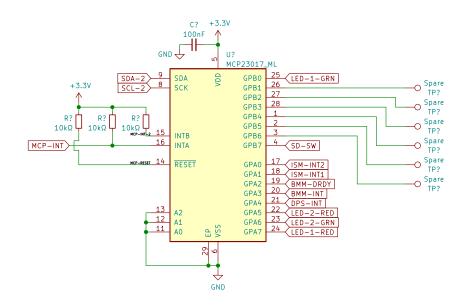




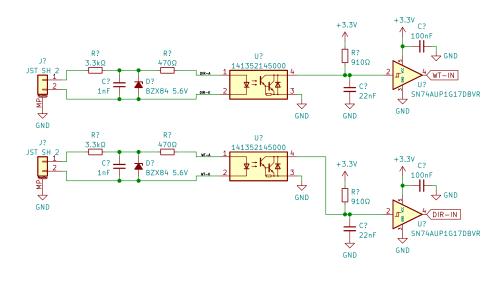


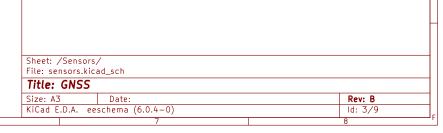


i²c Port Expander

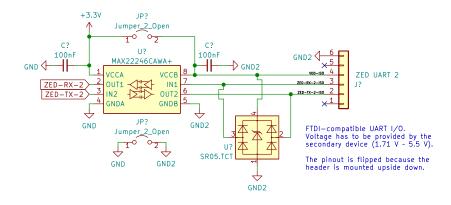


Wheel Tick / Direction Input

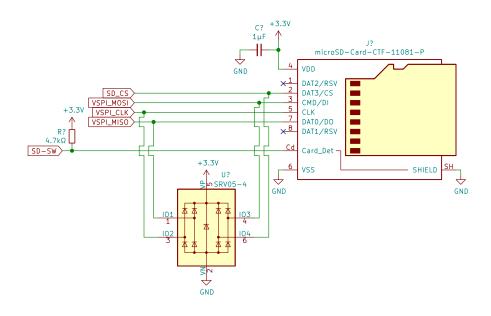




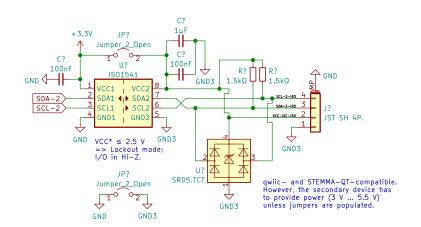
ZED-UART2-Breakout



microSD Card Slot

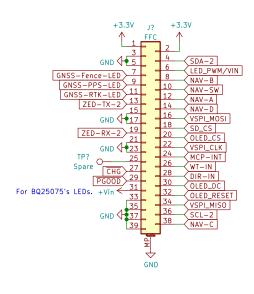


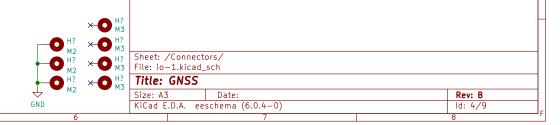
12C-Breakout



Flat Flex Connector

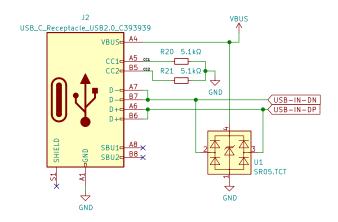
Used for connection between boards #1 and #2



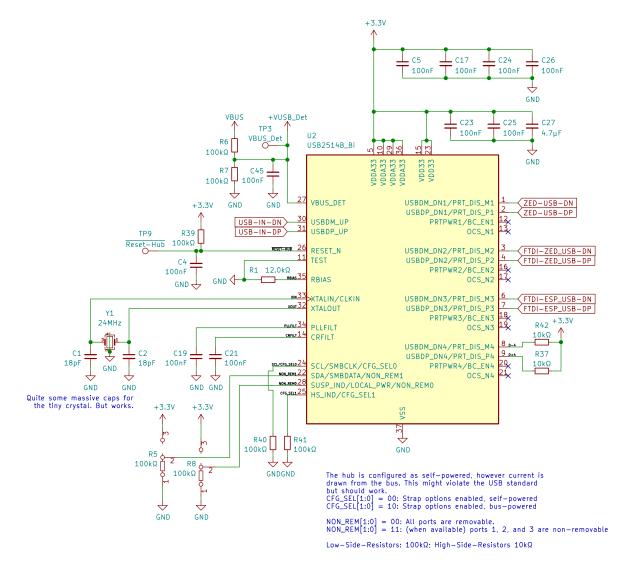


USB-C Connector

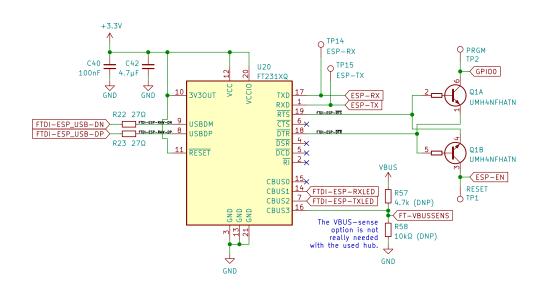
5V 0.5A legacy mode



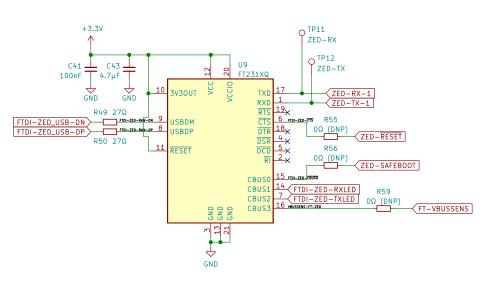
USB2514B HUB Could be replaced with USB2513



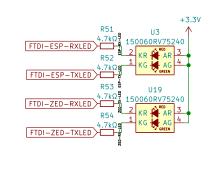
FTDI for ESP32

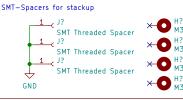


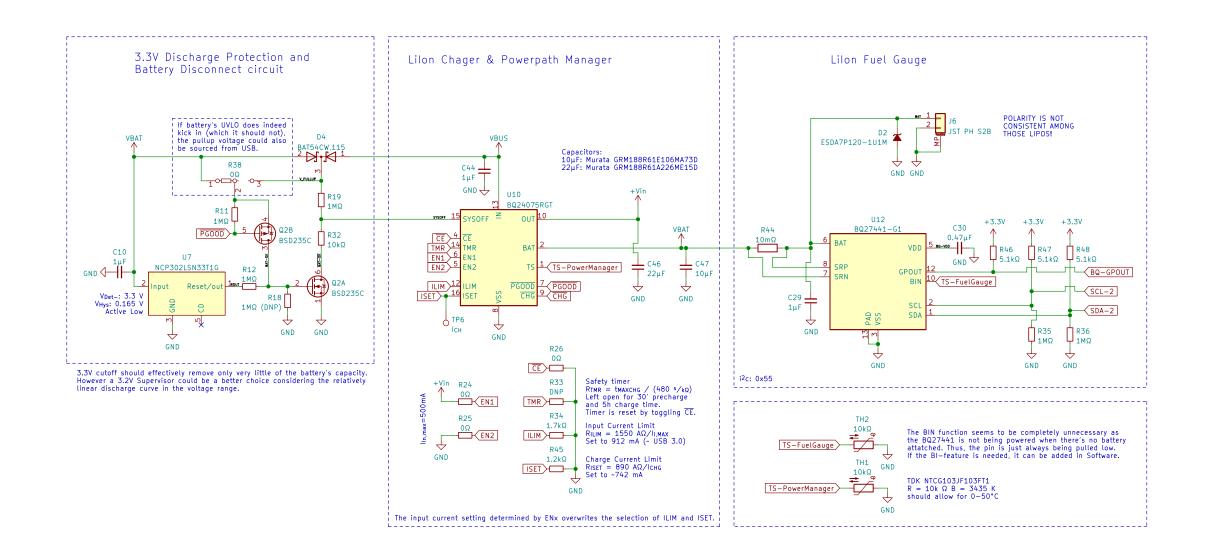
FTDI for ZED-F9P



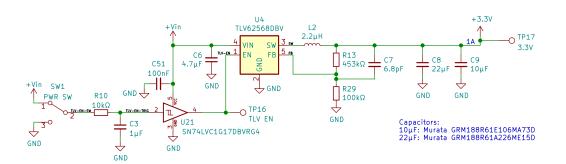
TX/RX-LEDs for FTDIs



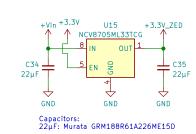


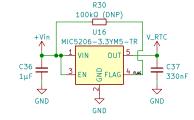




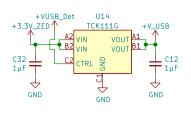


ZED LDO Converter



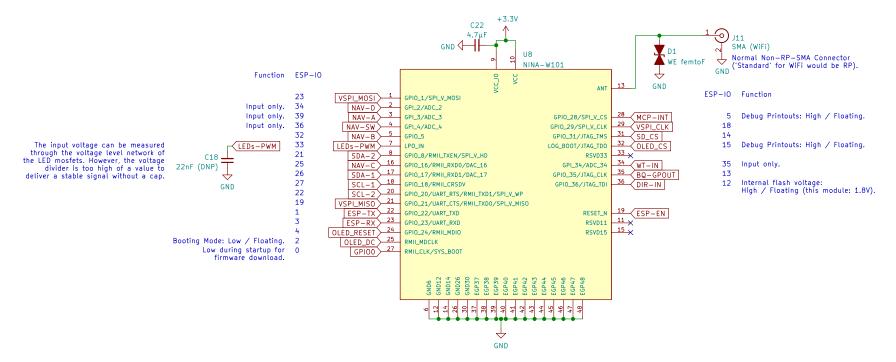


RTC LDO Converter ZED USB Power Switch

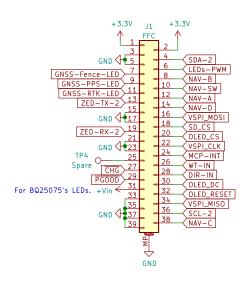


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Sheet: /Power/						
File: power.kicad_sch						
Title: GNSS						
Size: A3		Date:			Rev: B	
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		7			8	

ESP32 MCU



Flat Flex Connector



Strapping Pins: https://docs.espressif.com/projects/esptool/en/latest/esp32/advanced-topics/boot-mode-selection.html Integration Manual: https://www.u-blox.com/sites/default/files/NINA-W1_SIM_UBX-17005730.pdf

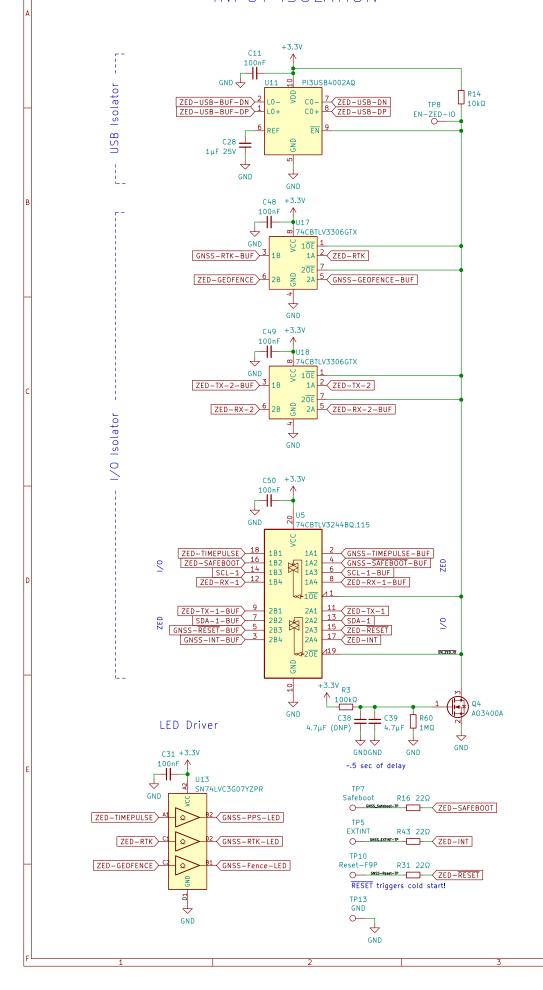
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Title: GNSS

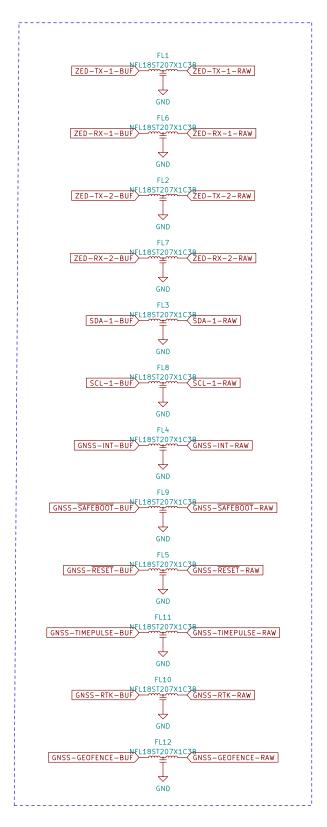
Size: A3 Date: Rev: B

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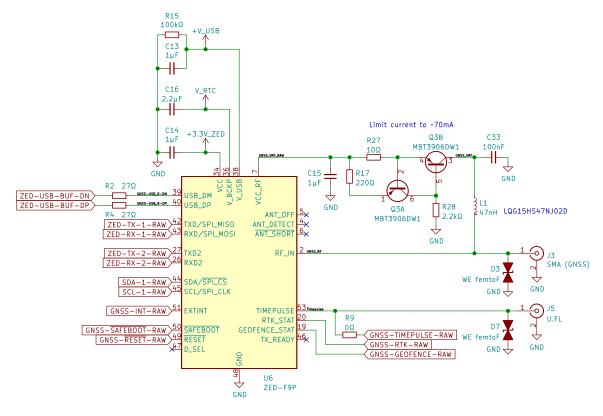
INPUT ISOLATION



FILTERING



ZED-F9P GNSS Receiver



Integration Manual: https://www.u-blox.com/sites/default/files/ZED-F9P_IntegrationManual_UBX-18010802.pdf Datasheet: https://www.u-blox.com/sites/default/files/ZED-F9P-04B_DataSheet_UBX-21044850.pdf

 Sheet: /ZED-F9P/

 File: zed.kicad_sch

 Title: GNSS

 Size: A3
 Date:
 Rev: B

 KiCad E.D.A. eeschema (6.0.4-0)
 Id: 8/9

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