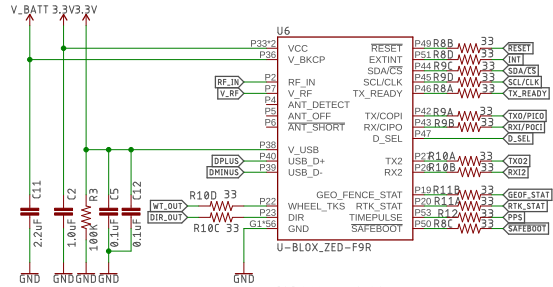


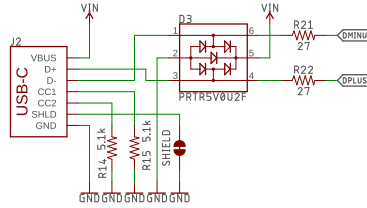
GNSS/Dead Reckoning Module – u-blox ZED-F9R
VCC Range: 2.7V – 3.6V



I2C Address: 0x42

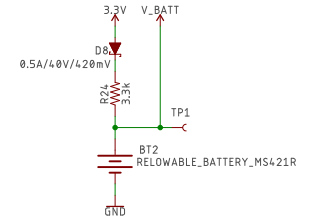
USB-C and Voltage Regulation: AP2112K

VIN Range: 2.5V – 6V
Max Current: 600mA

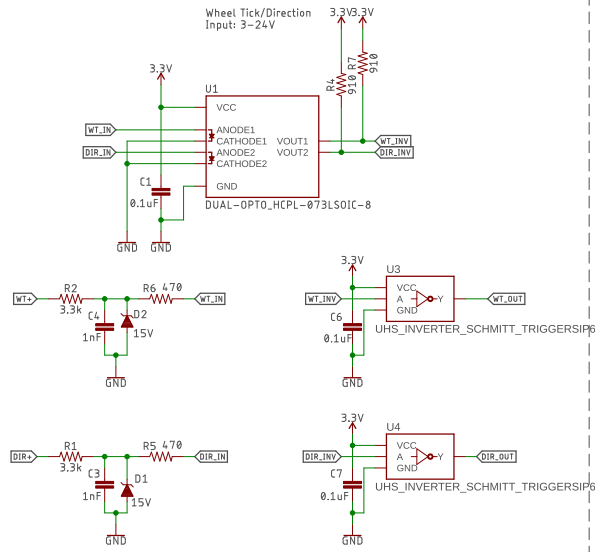


Battery – MS421R

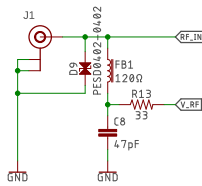
- Battery Initial Charge: 2.3–2.4V
- Initial Battery Capacity (math): 800mAh or Greater
- Battery Charge Rate: 1mA MAX
- V_{off}: 2.0V
- 72 hours charge time from 2.8–3.1V



Wheel Tick and Direction Signal

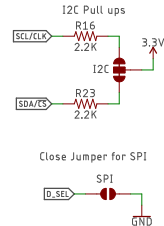


L1/L2 Antenna



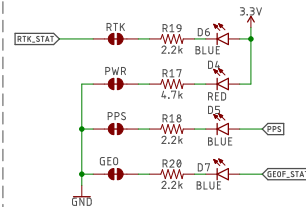
Coplanar Calculations for 50 Ohm Track:
Dielectric Constants: 4.6
Track Width: 1 mm
Gap Width: .2mm
Dielectric Thickness: 1.5mm

Jumpers

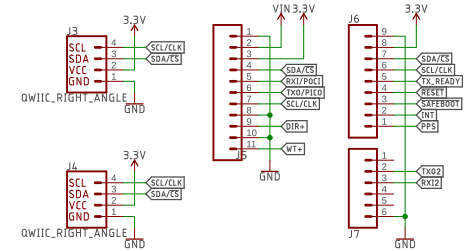


Close Jumper for SPI

Cut trace to disconnect respective LED



Connectors



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TITLE: SparkFun_ZED-F9R_v12_uFL

Design by: Elias Santistevan

REV: v12

Date: 7/17/2023 2:22 PM

Sheet: 1/1