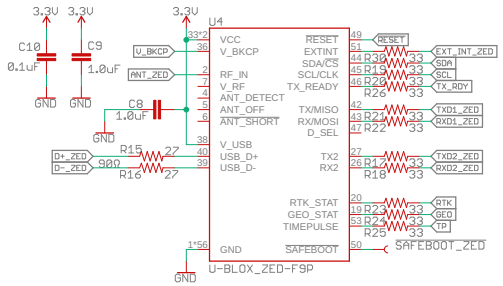
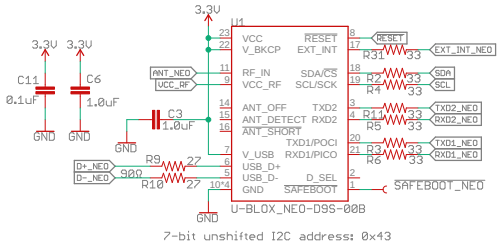
GNSS Module: u-blox ZED-F9P

VCC Range: 3.0 - 3.6V

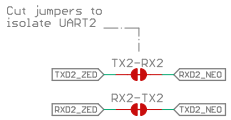


L-Band Corrections Module: u-blox NEO-D9S

VCC Range: 3.0 - 3.6V

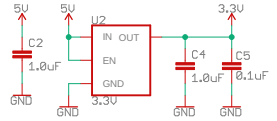


UART2 Link for PMP Corrections ZED-F9P <-> NEO-D9S

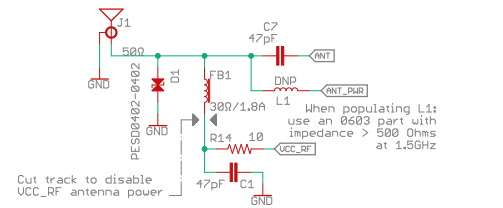


Voltage Regulation - AP2112K

Iout (max): 600mA
Vin (max): 6.5V
Vdrop (max): 250mV
Iq: 55uA



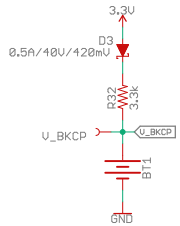
L1/L2/L-Band Antenna



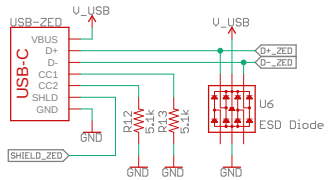
RF Track Impedance: Coplanar Waveguide with Ground Calculations
https://chemandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm
Ground is on layer 2. Prepreg thickness: 0.2mm. Er = 4.6
12.5 mil track with 5 mil gap = 50 Ohms

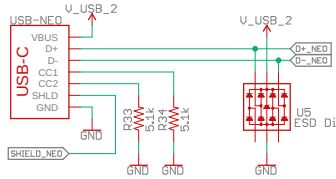
Antenna Divider - BP2G1+

Backup Battery



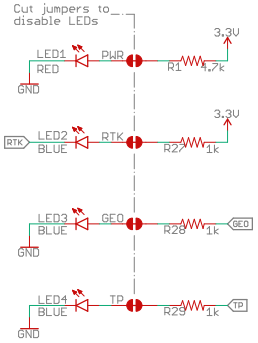
USB



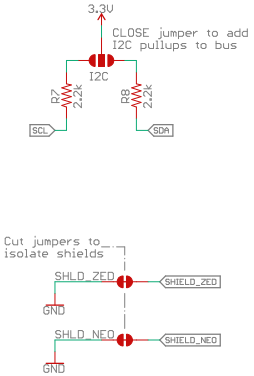


USB Track Impedance: Differential Pair
https://saturnpcb.com/saturn-pcb-toolkit/
Prepreg thickness: 0.2mm (7.1 mil). Er = 4.6
8 mil track with 5 mil gap (13 mil center to center) = 90 Ohms

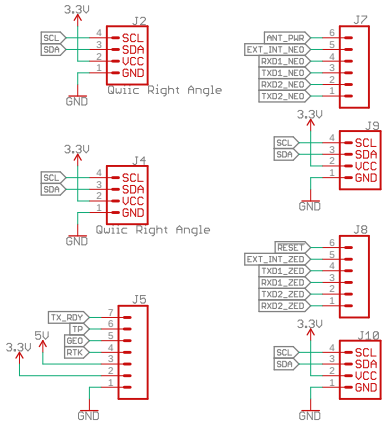
LEDs



Jumpers



Headers



Special Instructions

TITLE: ZED-F9P_NEO-D9S_Combo

Design by: Paul Clark
Revised By: Elias Santistevan

REV: v10

Date: 6/15/2023 11:12 AM

Sheet: 1/1