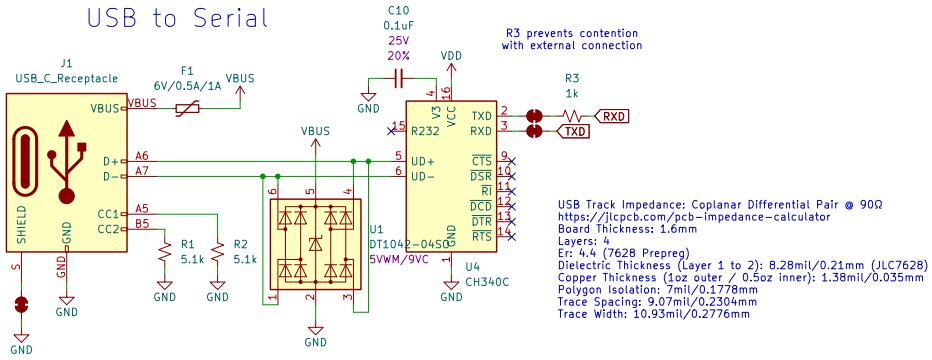
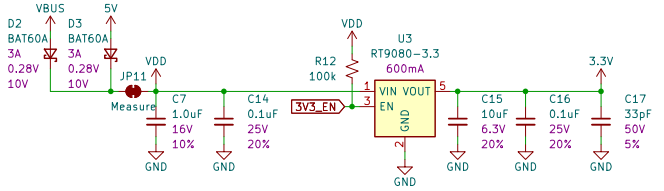
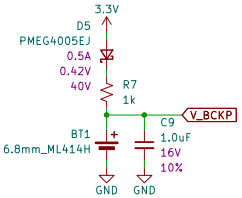
USB to Serial



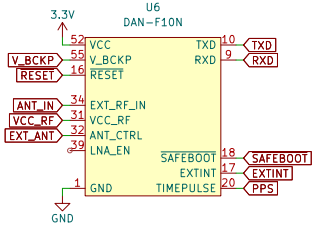
Power



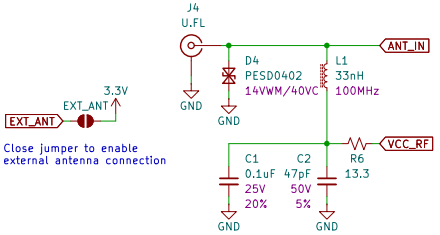
Battery Backup



DAN-F10N Dualband L1/L5 GNSS Receiver

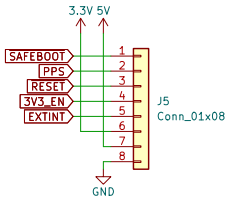


RF Connector

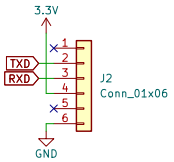


Microstrip (Coplanar Single Ended) 50Ω Calculation:
https://jlcpcb.com/pcb-impedance-calculator
Board thickness: 1.6mm
Layers: 4
Er: 4.4 (7628 Prepreg)
Dielectric Thickness (Layer 1 to 2): 8.28mil/0.2104mm (JLC7628)
Copper Thickness (1oz outer / 0.5oz inner): 1.38mil/0.035mm
Polygon Isolation: 7mil/0.1778mm
Trace Width: 11.1mil/0.2819mm

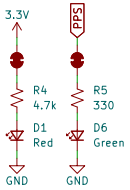
PTH Connectors



BlueSMiRF Connector



LEDs



open source hardware

Designed by: N. Seidle
SparkFun Electronics
Sheet: /
File: SparkFun_GNSS_DAN-F10N.kicad_sch

Title: DAN-F10N GNSS Receiver Breakout

Size: USLegal	Date: 2025-02-28	Rev: v10
KiCad E.D.A. 9.0.2		Id: 1/1