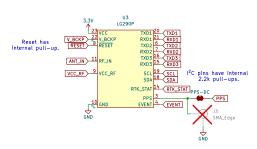


## LG290P Quadband GNSS Receiver



## I<sup>2</sup>C Connectors



No external I<sup>2</sup>C pull-ups because LG290P has internal resistors.

I<sup>2</sup>C interface not yet supported. Support coming in future firmware release.

## External PTH Connectors

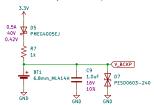


Generally speaking the ports are used as follows: UART1 — Configure in and NMEA output over USB UART2 — RTCM correction input and NMEA output over Bluetooth UART3 — NMEA output to embedded system

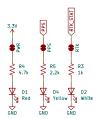
Conn\_01x06 BlueSMIRF

Locking JST

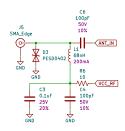
# Battery Backup



## LEDs



## RF Connector



Coplanar Waveguide Calculation:
Copper Thickness (1629): 1-4mil/0.035mm
Dielectric Thickness (1897 I to 2): 0.2mm
Er: 4,6
Polygon Isolation: 8mil/0.2032mm
RF Trace Width: 1.3.74mil/0.249mm
RF Trace Width: 1.3.74mil/0.249mm



Designed by: N. Seidle

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Sheet: /
File: SparkFun\_GNSS\_LG290P.kicad\_sch

Title: LG290P Triband GNSS Receiver Breakout

Size: USLedger Date: 2024-08-21 KICad E.D.A. 8.0.5

Rev: v10