

NEO-M9N GPS Breakout

GPS-15712

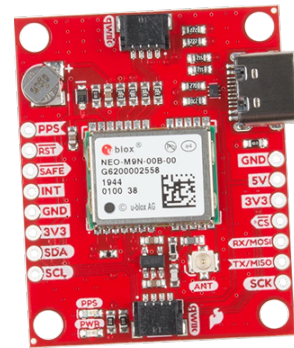
Product Overview

12-22-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun GPS-15712 NEO-M9N GPS Breakout is a global positioning satellite board with versatile configuration options. This board includes an integrated U.FL connector to boost reception. The 92-channel u-blox M9 engine Global Navigation Satellite System (GNSS) receiver can receive signals from the GPS, GLONASS, Galileo, and BeiDou constellations with 1.5-meter accuracy. The NEO-M9N GPS Breakout utilizes the concurrent reception of four GNSS to maximize position accuracy in challenging conditions. This enables increased precision and decreased lock time.



The NEO-M9N GPS Breakout is also equipped with an onboard rechargeable battery that provides power to the RTC on the NEO-M9N. The u-blox receiver supports I²C, making it ideal for Qwiic compatibility. The module detects jamming and spoofing events and can report them to the host, so the system can react to such events.

Features

- Integrated U.FL connector for use with antenna of your choice
- 92-Channel GNSS receiver
- 1.5m horizontal accuracy
- 25Hz maximum update rate (4 concurrent GNSS)
- Time-To-First-Fix:
 - Cold: 24s
 - Hot: 2s
- 80,000m maximum altitude
- ≤4 maximum G
- 500m/s maximum velocity
- 0.05m/s velocity accuracy
- 0.3 degrees heading accuracy
- 30ns time pulse accuracy
- 3.3V VCC and I/O
 - Current Consumption: ~31mA Tracking GPS+GLONASS

Features

- Software configurable:
 - Geofencing
 - Odometer
 - Spoofing Detection
 - External Interrupt
 - Pin Control
 - Low Power Mode
- Supports NMEA, UBX, and RTCM protocols over UART or I²Cv interfaces

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-neo-m9n-gps-breakout/>