Zio Qwiic GPS Module (U-blox, NEO-M8N-0-10)

SKU: 101955

Description:

GPS is the most interesting part for makers, with GPS, you can know where you are, or state the location of the object that you are tracking.

This is a high precision GPS module that includes a powerful NEO-M8N-0-10

module from u-blox.

The NEO-M8N module is based on the u-blox M8 GNSS (GPS, GLONASS, BeiDou, QZSS, SBAS and Galileo-ready1) engine that provides high sensitivity and minimal acquisition times while maintaining low system power.

We used a SC16IS752IPW to convert the module's data from UART to I2C (Qwiic connectors), so that you can use [Qwiic cable](#) to quickly connect the GPS module to any other Qwiic devices.
We also breakout the UART port to a 1.27mm terminal connector, just in case you want to use UART port directly.

We've even included a rechargeable backup battery to help keep the latest module configuration and satellite data available for up to two weeks. This battery helps to 'warm-start' the module, decreasing the time-to-first-fix dramatically. It also features a survey-in mode allowing the module to become a base station and produce RTCM 3.x correction data (as opposed to the previous version of the module which is not able to produce RTCM data).

We also offer you a tested GPS antenna for the module, you can just plug it into the IPX connector on the board. The antenna is required when you get it running. Note: The antenna needs to face towards the top.

Specification

- Voltage: 3.3V
- Horizontal position accuracy: 2.5 m
- Heading accuracy: 0.3 degrees
- Velocity accuracy: 0.05 m/s
- Time-To-First-Fix: 27 - 30s (cold), 1s (hot)
- Interface: I2C and UART
- IC:SC16IS752
- address: 0x4D, 0x4C, 0x49, 0x48 (Default: 0x4D)
- Dimension: 35.5 x 35.8mm
- Weight: 7.8g

Links:

- [PCB Source file](#)
- [PCB schematic](#)
- [Demo code and library](#)
- [GPS module NEO-M8N-0-10 datasheet](#)

More Product Picture: