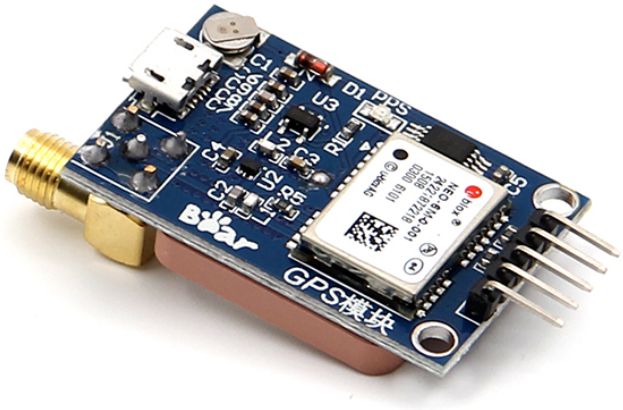
GPS NEO-6M Satellite Positioning Module Dev Board NEO 6M for Arduino STM32 C51



Description:

The Ubox NEO-6M gps engine on this board is a quite good one, with high precision binary output. It has also high sensitivity for indoor applications. The gps module have a battery for power backup and EEprom for storing configuration settings.
The antenna is connected to module through ufl cable which allow for flexibility in mounting the gps such that the antenna will always see the sky for best performance. This make it powerful to use with cars and other mobile applications.

GPS second pulse signal pps one second, its role is used to indicate the time of the whole second, and the moment is usually marked with the rising edge of the PPS pulse. Because GPS can give UTC time, but the user will receive a time delay, then in order to fine timing, the introduction of the rising edge of the PPS signal to mark UTC the whole second moment, the accuracy can be nanoseconds, and there is no cumulative error.

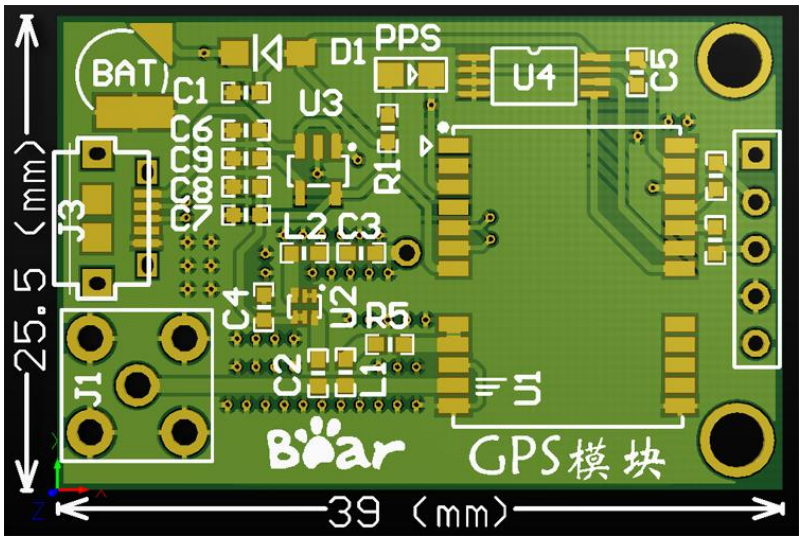
Features:

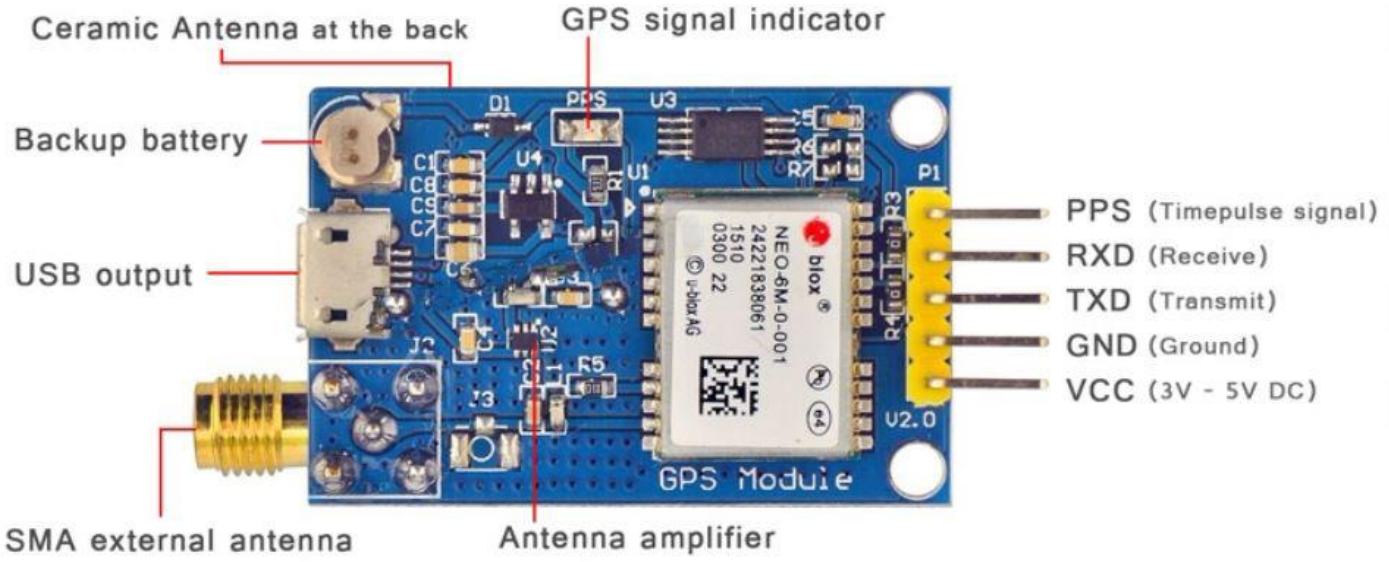
- Able to use GPS as a really accurate clock, this board provides a **PPS (pulse per second) signal**. This is a highly accurate clock pulse coming off a pin on the GPS that NTP can use. If you have such a GPS the resource below is a must read.
- Compact and excellent performance
- Micro USB port, you can use general mobile phone cable to connect this GPS module to your computer. No need USB-TTL, convenient for use
- Onboard ceramic passive antenna, able to search for the satellite in open area, and an external antenna is optional
- SMA port, convenient for connecting with the external active antenna, stronger satellite search ability
- A reserved TTL port, convenient for connecting to USB-TTL or external single chip microcomputer
- Back-up rechargeable battery
- UART TTL socket
- EEprom to save configuration settings

- Support hot start
- Get 51 Arduino STM32 microcontroller routine
- With a USB interface, you can watch the computer positioning effect directly phone line.
- With the passive ceramic antenna and passive antenna amplifier, make better use of the individual effects.
- With SMA interface can be directly connected to an active antenna SMA.

Specifications:

- Supply Voltage: 3.3V - 5V DC
- Operating Current: 45mA
- Baud Rates: 9600 (configurable from 4800 to 115200)
- Navigation Update Rate: 5Hz maximum (1HZ default)
- Capture Time: Cool start: 27s (fastest) ; Hot start: 1s
- Operating Temperature Range: -40 to +85°C
- Separated 18 X 18mm GPS antenna
- Dimension: 39x25.5mm
- Weight: 19g





* PPS should be connected to the clock pulse output (CPOUT) of a MCU. This pin is unconnected if GPS module is connected to a computer.

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