



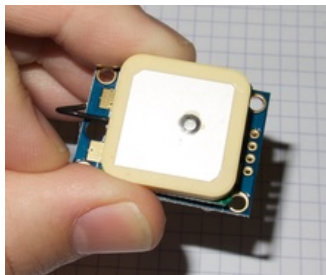
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U-blox NEO-6M GPS Module



Price: **\$23.95 (inc GST)**
\$21.77 (exc GST)

SKU: TG0006

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Product Description

Looking for a value GPS module for your Arduino, Raspberry Pi, ArduCopter or other project? Now available from Tronixlabs Australia is the U-blox NEO-6M GPS Module. This isn't the smallest GPS module in our range ([this is](#)) however for the price it's much more affordable.

The U-blox NEO-6M GPS Module is ideal for all sorts of development boards, Arduino projects and more. It can operate on voltages between 3 and 6V DC, and has a simple serial output which blasts out the NMEA GPS data at 9600 baud.

Arduino users - this works perfectly with the TinyGPS++ [library](#). We'll write our own Arduino tutorial in the near future, however for more information check out the links below. As always, if you have any questions please email support@tronixlabs.com or ask in the [forum](#).

We also have this GPS receiver available on a neat [GPS Shield for Arduino](#).

Specifications:

- 50 channel receiver
- Time to first fix - Cold or warm start 27 seconds, hot start - 1 second
- Sensitivity
 - Tracking and navigation - -161dBm
 - Reacquisition - -160dBm
 - Cold start (without aiding) - -147dBm
 - Hot start - -156dBm
- Maximum update rate - 1Hz
- Horizontal position accuracy - 2.5m
- Velocity accuracy - 0.1 m/s
- Heading accuracy - 0.5 degrees
- Operational limits
 - Dynamics <= 4g
 - Altitude - 50000m
 - Velocity - 500 m/s

Pinouts:

- GND - GND
- Vcc - connect to 5V or 3.3V
- TX - data from GPS module - connect to your board's RX pin
- RX - data to the GPS module - connect to your board's TX pin

More information:

- ublox product [home page](#) for data sheets and more details
- Windows [test software](#)

Tools

- Arduino TinyGPS++ [library](#).
- Arduino tutorial on [Instructables](#) (not ours)

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