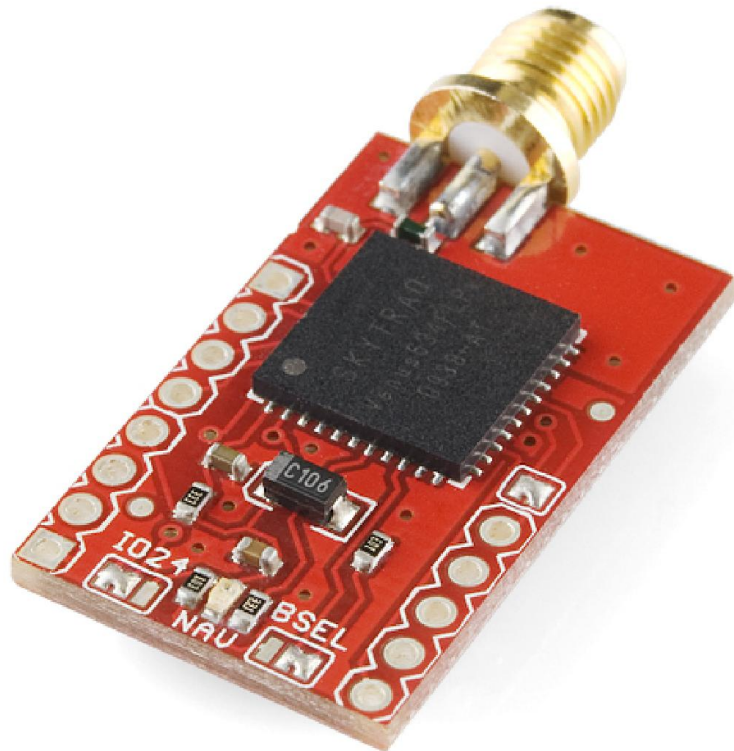# Venus GPS with SMA Connector (GPS-09133)

Product Description

Description: This is a development board that uses the smallest, most powerful, and most versatile GPS receiver we carry, the Venus. The module can be configured to an amazingly powerful 10Hz update rate, with 14 channel tracking! With two serial ports, UART and SPI interfaces (please see the datasheets on how to implement the SPI interface), 28mA operating current, and high sensitivity, this receiver seriously opens new doors for tracking. Module outputs the standard NMEA-0183 or SkyTraq Binary sentences at a default rate of 9600bps (adjustable to 115200bps).

The Venus634LPx has improved sensitivity, an integrated LNA (with multipath detection and suppression), built-in RTC, and integrated single power supply making it very simple to use. In

addition, the module supports data logging with an external SPI Flash!

You can easily connect to the UART using our [USB to Serial FT232 Breakout Board](#).

Check out our [GPS buying guide](#).

Note: The GPIO pins do not serve any functions and can be left floating and ignored.

Features:

- 51 channel acquisition and 14 channel tracking
- SkyTraq based chipset
- 10Hz max update rate (1Hz default)
- Integrated LNA
- Single 2.7-3.3V supply
- 3.3V TTL UART
- Power: 28mA tracking
- Sensitivity: -161dBm
- Accuracy: <2.5m
- Hot start: 1 Seconds
- Cold Start: 29 Seconds
- Supports active or passive antennas
- Supports SBAS (WAAS, EGNOS, MSAS)

Dimensions: 1.15 x 0.7 inches

Documents:

- [Schematic](#)
- [Eagle Files](#)
- [Venus634FLPx Dataheet](#)
- [Binary Command Set](#)
- [GPS Viewer Software](#)
- [Datalogging Datasheet](#)
- [Design Guidelines](#)
- [Reference Layout](#)
- [Layout Guidelines](#)
- [Firmware Update](#)