

## BL-78A Datasheet



## Overview

### The GPS Module

BUGlocate is a GPS receiver for BUG, great for tracking or mapping. The module includes both an internal passive antenna and a connector for an external active antenna.

### Product Specifications

- SiRF chipset based implementation
- Support for active (external) and passive (internal) antenna configurations capable of tracking signals as low as -159 dBm (with active antenna)
- Selectable NMEA-0183/SiRF: latitude, longitude, elevation, velocity, heading, time, tracking status
- Receiver sensitivity:
- Cold start: -144 dBm
- Hot start: -155 dBm
- Navigation: -157 dBm
- Tracking: -159 dBm
- Satellite tracking capability: 20 simultaneous satellites
- Typical acquisition performance @ -140dBm:
- Hot start 500 – ms
- Warm start – 32s
- Cold start – 34s
- Active antenna port: 50 Ohm, Snap In MCX jack,
- Active antenna available power: 3 – 3.3 Vdc, 50mA. Short circuit protected
- Environmental: RoHS compliant, -40 to +85°C, 95% Relative humidity
- Altitude: -300 to 18,000 meters
- Velocity: up to 500 M/s
- Acceleration: Up to 5 G

For more information about the hardware and technical details, please visit:

<http://wiki.buglabs.net/index.php/Hardware>