

## 3910D Very Low Noise Mobile GPS Antenna

The 3910D GPS antenna is an industry leader in low noise figure. It features ESD circuit protection, an innovative very low noise LNA and a high rejection SAW filter. It also features a precision tuned custom ceramic patch element that minimizes detuning effects caused by adjacent objects. The 3910D is ideal for Fleet Management, Asset Tracking and Precision Agriculture as well as any application with poor signal reception area.

The 3910D provides consistent, clear GPS signal reception while minimizing loss-of-lock in high-RF fields. Housed in a weatherproof magnetic or screw mount enclosure, the 3910D GPS antenna is ideal for demanding vehicle mounted GPS applications.

### Features

- Low noise (0.5dB)
- Low current: 8mA
- Superior out-of-band rejection
- Wide voltage input range (2.7 - 5 VDC)
- Robust IP67 housing built for various weather conditions



### RF/Electrical Specifications

Center Frequency	Nominal Gain	Polarization	Current Draw
1575.42 MHz $\pm$ 10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	8 mA @ 3.3V

### Mechanical Specifications

Antenna Dimensions	Weight	Shock	Vibration
2.1" x 2.3" x .54" (52.1 x 58.9 x 13.6mm)	.26 lbs (120 g)	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 - 200 Hz log sweep: 3G

Cable	Connector	Mounting Method
16.4' (5 meters) highly-flexible 174 sized cable	SMA standard	Magnetic (5 lb lift-off force) or permanent (pre-threaded for 3 x M2.5 screws)

### Environmental Specifications

Temperature Range	Weatherproof
-40°C to +85°C operating	IP67

### Low Noise Amplifier Specifications

Nominal Gain: 28 dB @ 3.3VDC
Noise Figure: 0.5 dB (typical)
Voltage: 2.7-5 VDC
ESD Circuit Protection: 15K volts

### Out-of-band Filter Rejection

