



3910D

3910D Very Low Noise Mobile GPS Antenna

PCTEL's 3910D GPS antenna has one of the industry's lowest noise figures. It features ESD circuit protection, an innovative very low noise LNA and a high rejection SAW filter. It also features a precisely 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 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: 0.5 dB
- Low current: 8mA
- Superior out-of-band rejection
- Wide voltage input range (2.7 - 5 VDC)
- Robust IP67 housing built for various weather conditions

Low Noise Amplifier Specifications

Nominal Gain: 28 dB @ 3.3 VDC
Noise Figure: 0.5 dB (typical)
Out-of-Band Signal Rejection: > 30dB @ ± 30 MHz
Voltage: 2.7-5 VDC

RF/Electrical Specifications

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

Mechanical Specifications

Antenna Dimensions	Weight	Shock	Vibration
2.05 L x 2.33 W x 0.54 H in. (52.1 x 59.2 x 13.6 mm)	.29 lbs (130 g)	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 - 200 Hz log sweep: 3G

Cable	Connector*	Mounting Method
9.8' (3 meters) highly-flexible 174 sized cable	Male SMA standard	Magnetic (5 lb lift-off force) or permanent (pre-threaded for 3 x M2.5 screws)

Environmental Specifications

Temperature Range	Ingress Protection
-40° C to +85° C operating	IP67



* For other connector options, please refer to GPS Mobile Antenna Configurator Part Number Guide.