

Astrata's Geo-Location Platform (GLP) offers the latest technology for advanced real-time vehicle and asset tracking.

Astrata's GLP100 is a compact, technologically advanced GPS tracking device with embedded antennas for GSM and GPS enclosed in a weatherproof IP67 rated form factor housing. The Astrata GLP100 can be rapidly installed in any vehicle since there are no antennas to mount and no antenna cable to route through the vehicle. For basic track and trace, only three wires must be connected to the vehicle's electrical system.

The GLP100 operates in SMS and GPRS modes using 128 bit AES encryption, this gives it the ability to transmit its position securely as a text message and can be

monitored in real-time via Astrata's Geo-Location System (GLS) - a Windows client-server solution or via the GLS-Web solution hosted at Astrata's premises in a secure environment. The GLS Enterprise Back Office also supports large fleet and multi-fleet operations. The Astrata GLP100 has a robust, embedded Geo-Fence feature that can trigger an alert when the device enters or exits a pre-defined area. 1,000 real-time Geo-fence points can be loaded onto the GLP100. This is ideal for theft protection or being notified when a vehicle enters or leaves a pre-defined area. The Astrata GLP100 employs a high-sensitivity GPS receiver that can provide near-indoor and obstructed sky view location capability where normal GPS is unable to do so.

This also allows the GLP100 to be mounted in covert locations within a vehicle.

The Astrata GLP100 Telematics device boasts real-time monitoring, secure communications and expandability to other sensors, effectors and data devices using a high speed RS485 communications bus. This telematics device measures just **H120 mm x W130 mm x D22 mm (maximum dimensions) including 3 antennas and 1000 mAh rechargeable Li Ion battery.**



Applications include:

- Fleet Management
- Covert Vehicle Installations
- Track and Trace
- Vehicle Recovery
- Cash in Transit
- Vehicle Leasing
- Asset Management

Benefits include:

- Small form factor is easily concealed
- No external antennas provides rapid and easy installation
- PDA testing device assures correct installation and optimum GPS/GSM performance
- High speed 2 wire RS485 communications bus provides expandability for additional sensors, data devices and other options
- 3 Axis Accelerometers provide hi-resolution data for accident buffer, driver profiling (Optional Module)

- Factory tested for Shock and Temperature
- RF transceiver beacon accommodates remote sensors for trailers
- IP67 rated enclosure allows installation inside and outside vehicle.

Suitable for a variety of industries and markets including:

- Retail
- Courier
- Oil & Gas
- Government Institutions
- Emergency Services
- Construction Industry
- Service Industry
- Logistics
- Car Rental
- Fleet Leasing
- Equipment Hire
- Asset Management
- Fleet Management



Installation

- Simple 3 wire minimum install
- Internal antennas
- PDA for test and verification
- Separate power regulator provides additional location security for the device, by allowing it to be located away from the ignition switch

I/O

- Tamper
- Ignition Sense
- Vehicle Battery Voltage
- Internal Battery Voltage
- 5 Digital or Analog Inputs
- 2 Digital Output

Communication

- 434 MHz Transceiver (Optional Module)
- RS485 High Speed Peripherals Bus for continued expandability
- Least Cost GSM Communication - Main communication channel is GPRS. If a GPRS channel is unavailable the device will send the data via SMS Critical Data only. Supports UDP/IP, HTTP

Security

- Distress Button (uses one of the digital inputs)
- Tamper Detection (Optional Module)
- Capable of storing 3000 GPS positions
- 128 Bit AES Data Encryption
- Covert Installation

Technical Specifications

Operation

Back up Battery	1000 mAh
3 Axis Accelerometers (Optional Module)	High resolution accident buffer (500 Hz) Supports accident buffer and driver profiling applications
I/O	Ignition Sense Tamper 5 Digital or Analog Inputs 2 Digital Outputs Vehicle battery voltage level
Connectors	4 conductor automotive snap lock connector

GSM/GPRS

Band	Quad-band
Transmit power	Class 4 (2W) at EGSM900, Class 1 (1W) at GSM1800 Class 1 (1W) at GSM1900
Antenna	Built-in GSM antenna Supports the low-level data protocols UDP, HTTP

GPS

Receiver	Built-in GPS antenna
Sensitivity	158dbm or -188dbw sensitivity
Power	Power Regulator accepts 12-60 VDC

Environmental

Temperature range operating	Normal operating -20 to +70°C and restricted -40 to +70 (Charging of unit is to take place between 0 and +45°C)
Material	IP67 Rated Enclosure
Dimensions	Form factor: L120mm x W130mm x D22mm
Weight	98 g
Mounting	Interior or exterior



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Dealer Stamp: