

GEOPOINT 2407

Automatic Vehicle Tracking System



The **ASL GeoPoint 2407** is a robust mobile GPS Unit that serves as an Automatic Vehicle Tracking System (VTS) operating in conjunction with a Control Station. It helps to track and provide real time location information on the vehicle in which the Unit is installed. The data exchange with the Unit takes place using an integrated Radio, or GSM (including GPRS) communication. The Unit features an advanced electronic design with embedded software equipping it with several user-friendly operational features.

The **ASL GeoPoint 2407** Unit comes with two versions; one 2407R which has a built-in Radio modem, and second 2407G which carries a built-in GSM module, to provide connection to the respective radio communication networks enabling a data exchange between the Unit and the Control Station where a GeoConnect software is installed.

GeoConnect : ASL GeoConnect is a GUI based application software, installed at the Desktop of the Control Station. Using this, the operator of a fleet can query any vehicle fitted with GeoPoint 2407 Unit and obtain its position in real time, or send/receive text messages to/from the Unit. Alternatively, vehicles can be configured to report their position to Control Station at set intervals and automatically update a database at the Control Station. This data can be read from the database and the position displayed on a digital map.

OPERATIONAL FEATURES

- 16 channel GPS Receiver
- Tracks all satellites in view
- Non Volatile 32 Mb of Flash memory, enables store up to 1,00,000 GPS data strings.
- Emergency message facility
- GPS Time and UTC facility
- Operates with Data call, SMS and GPRS
- Real time GPS position on a map
- Vehicle ID configurable from a Control Station
- Time and Date, Direction, Speed and accurate Distance travelled indication
- LED indicators for status of the Unit
- Automatic data polling / reporting with intervals selectable from Control Station
- Data logging for 60 to 120 days @ 2minutes, 120 to 240 days @ 4 minutes or better
- Playback of the GPS recorded positions of the vehicle at Control Station

OPTIONAL FEATURES

- Alpha Numeric LCD/Graphic Display and Key board interface
- Voice communication (with hands free headgear) for calls between Vehicle and Control Station
- 3 status inputs (TTL Level)
- Vehicle Unit status indication at Control Station
- Create/delete/combine the Vehicle ID's into groups
- RFID/Proximity Reader interface
- Auto alerting to multiple locations (Home, Police, Hospital etc.)
- Recording stoppages (Number and duration of stoppages) and over-speeding
- Bluetooth interface for data download
- CDMA data communication interface
- Serial interface to Taxi fare meter
- Interface for printing fare

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SPECIFICATIONS

ASL GeoPoint 2407R

ASL GeoPoint 2407G

16 Channel L1 frequency C/A Code Tracks all satellites in view	Receiver	16 Channel L1 frequency C/A Code Tracks all satellites in view
Better than 10m	Accuracy	Better than 10m
Less than one minute from cold start	Acquisition time	Less than one minute from cold start
< 5 Sec	Signal re-acquisition	< 5 Sec
Once per second	Position Update Rate	Once per second
Radio	Built in Modem	GSM (GPRS) / CDMA (Optional)
User friendly Protocol	Output Messages	User friendly Protocol
Through Radio	Data Communication	Through GSM (GPRS enabled)
Active Antenna with Magnetic mount	Antenna	Active Antenna with Magnetic mount
1200 bps	Data Transmission Rate	9600 bps
Selectable from Control Station	Data Update Rate	Selectable from Control Station
32 Mb of Flash (NVRAM) extendable to 64 Mb	Memory Back up	32 Mb of Flash (NVRAM) extendable to 64 Mb
Through Serial Port (Offline), Online network and Bluetooth (Optional)	Data download	Through Serial Port (Offline), Online network and Bluetooth (Optional)
Operating temperature: 0 to +55 deg.Celsius Storage temperature: 20 to +70 deg.Celcius	Environmental	Operating temperature: 0 to +55 deg.Celsius Storage temperature: 20 to +70 deg.Celcius
95% RH at +40 deg Celcius	Humidity	95% RH at +40 deg Celcius
Power: 9 to 18 V DC (from vehicle battery) Power consumption: Less than 6W	Electrical	Power: 9 to 18 V DC (from vehicle battery) Power consumption: Less than 6W
130L x 55H x 110W mm (Approx)	Mechanical Dimensions	130L x 55H x 110W mm (Approx)
500 grams approx.	Weight	500 grams approx.

ASL Advanced Systems Private Limited (ASL) has been engaged in the design and development of Global Positioning System (GPS) receivers and GPS based applications. Established in 1992, ASL has successfully developed and supplied thousands of GPS receivers, and provided solutions using GPS technology in the areas of Automatic Vehicle Tracking, Mining, Timing, Mapping, Navigation (Land, Air, and Marine) etc. and also DGPS reference station for navigation and accurate positioning applications in Military and Civil sectors

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Due to continuous product development ASL Advanced Systems reserves right to amend or alter specifications without notice.