

# NAVTRACK 2510

## Integrated Navigation & Tracking System



The ASL NavTrack 2510 is a robust mobile GPS receiver Unit designed to serve a combined function of autonomous & instantaneous Vehicle Navigation & Location and Tracking the vehicle in real time in which the Unit is installed, using GSM connectivity. For tracking, the Unit works in conjunction with a Control Station which is equipped with a desktop PC, ASL GeoConnect communication software and a GSM module. The Unit features an advanced electronic design with embedded software equipping it with several user-friendly operational features.

### FEATURES

- Operates with Navstar constellation of GPS satellites
- Position in Lat/Long or IGRS coordinates
- WGS-84 and INDIAN IN Datums
- Provision to store 250 waypoints and 26 routes with 20 waypoints in each
- Stores current position
- Backlit LCD graphic display
- Graphical Course Deviation Indicator
- Displays range and bearing of selected waypoint w.r.t. current position
- Displays 20 nearest waypoints w.r.t. current position with zoom facility
- Distance in Km, Nm or Mile
- Speed in Kph, Mph or Kt
- Hardware compatible for DGPS operation
- Data stored in (NV) Flash memory
- Data exchange (user data) between the Unit and a PC
- Arrival and fault alarm indication
- Simulation mode for training

#### Navigation Features

- Route Navigation
- Direct to destination / waypoint
- Retrace with tracklog
- Estimated Time of Arrival (ETA)
- Estimated Time Enroute (ETE)
- Numerical value of Cross Track Error
- Manual or Auto Leg switch over
- Graphical display of current & next Leg
- Electronic compass in action during navigation

#### Tracking Features

- GSM interface for data communication
- Reporting of Position, Velocity & Time along with vehicle ID at selected time intervals
- ASL GeoConnect communication software used for tracking including polling and messaging between the Unit & Control Station

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### SPECIFICATIONS

<b>Receiver Accuracy</b>	12 Channels, L1 Frequency, C/A Code, Tracks all satellites in view Better than 10m
<b>Position update rate</b>	Once per second
<b>GSM Module</b>	Dual band EGSM
<b>SIM Interface</b>	GSM SIM card interface (3V)
<b>Message length</b>	130 characters of GPS strings
<b>Display</b>	240X64 Pixel graphic LCD display
<b>Keyboard</b>	8 Membrane keys
<b>Input Power</b>	12 to 36 V DC
<b>Protection</b>	Reverse polarity protection
<b>Interfaces</b>	2 X RS 232 Port Port 1 : User data upload/download Port 2: NMEA 0183 output DGPS correction messages (RTCM104 SC format) input
<b>GPS Antenna type</b>	3.3V Micro strip patch antenna (magnetic mount), with pre-amplifier
<b>Polarization</b>	Right hand circular
<b>Frequency</b>	1575 ± 10MHz
<b>Gain</b>	26 dB
<b>GSM Antenna type</b>	Magnetic mount
<b>Frequency Band</b>	870-960 MHz & 1850-1990 MHz
<b>Power rating</b>	10 W
<b>Temperature</b>	Operating : - 20° C to + 70° C Storage : - 40° C to + 85° C
<b>Humidity</b>	95% RH at + 40° C
<b>Weight</b>	< 1.5 Kgs
<b>Unit size</b>	Vertically Mounted Model: 240mm X 135 mm X 58mm (approx) Horizontally Mounted Model: 240 mm X 150mm X 75mm (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

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

ASL/NavTrack/Oct 2005 Rev 01.

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