

# GPS-301 - Telematics & GPS Fleet Management

## Features

- ◆ High Sensitivity GPS Device
- ◆ Compact, lightweight, low profile design
- ◆ Plug-n-play installation
- ◆ Complete GSM/GPRS communications
- ◆ GPS location, geo-fencing, event reporting engine
- ◆ Ignition Sense
- ◆ Supports a host of OBDII permitted protocols
- ◆ Optimized 3-axis accelerometer for driver behavior monitoring
- ◆ Built-in programmable rules engine
- ◆ Control automation capabilities
- ◆ Driver behavior events & reporting
- ◆ Engine data-driven alerts and reporting
- ◆ Integrated SMS for commands & messages
- ◆ Auto-registration on power up

## General

- ◆ Insurance Applications
- ◆ Telematics
- ◆ Driver and Vehicle Profiling
- ◆ Vehicle Recovery
- ◆ Fleet Management



GPS-301

The GPS-301 is a certified dual-band integrated device, purpose-built for the Usage Based Insurance (UBI), telematics, and fleet management markets. Providing easy plug-and-play installation, designed for passenger cars, light trucks, and service vans.

It is an innovative plug-n-play device with internal antennas, providing complete GSM/GPRS communications. It supports a host of vehicle engine OBDII permitted protocols while still providing customizable features including GPS location, ignition, geo-fencing, trip reporting and events. Combined with the on-board 3-axis accelerometer, the device also has built-in threshold events to capture metrics critical to effective fleet and insurance monitoring such as excessive engine speed, rapid acceleration, harsh braking, speed violations, and excessive idling.

### Tracking Software Support

- ◆ POWER-trak3 - Professional Enterprise Suite
- ◆ FleetLinc - Web Tracking Service
- ◆ Fleet-Control AP - Your Software



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## OBD-11 Features

J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP2000, and ISO-15765 CAN protocols supported VIN, excessive engine speed (RPM), vehicle speed, vehicle battery voltage (low battery warning), check engine light (MIL alert), odometer (trip distance), idle time reporting, low fuel alert

## GPS Fleet Management Features

I/O control, GPS TX internal, binary reporting, timed reporting, alarm reporting, maximum speed exceeded, status change reports, GPS content, event reporting, distance reporting, geo fencing and virtual odometer, driver behavior reporting

## Location Monitoring & Fleet Management Software

**POWER-trak3** - Professional Enterprise GPS Tracking, Security and Management Software (PC/Desktop/Server/Cloud/Web), no monthly fee, one time cost.

**FleetLinc** GPS Web Tracking Server (monthly subscription required). Subscribers can log onto the web site and view the current and historical activity of the user, and run comprehensive reports and activity analysis.

**Fleet-Control** API, is a low cost background software module running on your server that provides bi-directional integration of the solution to non-CES software systems, e.g. 911, CAD etc, or. It supports ALL CES subscriber devices in one protocol, negating the need to develop an interface to separate devices.

The screenshot displays the FleetLinc web tracking interface. The top navigation bar includes 'File', 'Edit', and 'View' menus, and a user login status 'Logged in as: CES Wireless Technologies Co'. The main area features a Google Map of Winter Park, FL, with traffic data overlays. A legend indicates traffic speeds: green for > 50 MPH, yellow for 25-50 MPH, and red for < 25 MPH. A popup window for 'Demo04' provides the following details:

- Streets: 1111-1199 W Fairbanks Ave, Winter Park, FL 32789, USA
- Last position at: 1/06/2012 11:24:08
- Speed: 0 Bearing: N (0)

The sidebar on the left contains a table of active vehicles:

Alias	Speed	Direction
Demo01	115	N
Demo02	35	N
Demo03	24	E
Demo04	0	N
Demo05	43	W
Demo07	0	N
Demo08	35	N

Each row in the table includes an 'Address' column with the vehicle's location. The bottom of the interface shows the Google Maps interface with coordinates: Latitude: 28.59296, Longitude: -81.36359.

## Housing

- Dimensions: (L x W x H) 46 x 43 x 28 mm
- Rugged textured plastic enclosure UL94-Vo fire rated

## Radio Technology: (North America)

- Frequency (MHz): 850/1900
- Transmit Power: Class 4 (2W@850 MHz)  
Class 1 (1W@1900 MHz)

## Radio Technology: (ROW)

- Frequency (MHz): 900/1800
- Transmit Power: Class 4 (2W@900 MHz)  
Class 1 (1W@1800 MHz)

## SMS Functionality

- Text, PDU, MO/MT, Cell Broadcast

## GPS Functionality

- GPS Protocols: NMEA, Binary
- Buffered GPS Message Feature: Yes

## Motion Detection

- 3-axis digital accelerometer for motion alert (towing alert) and driver behavior reporting (rapid acceleration, harsh braking) using configurable thresholds

## Over-The-Air Commands

- I/O control, GPS TX internal, binary reporting, timed reporting, alarm reporting, maximum speed exceeded, status change reports, GPS content, event reporting, distance reporting, geo fencing and virtual odometer, driver behavior reporting

## SIM Card / Interface / I/O

- SIM Access: Internal
- GSM Antenna: Internal antenna
- I/O Connector: Micro USB (2.0), command port
- OBD II Connector: J1962 compliant

## On-Board Diagnostics (OBDII)

- J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP2000, and ISO-15765 CAN protocols supported VIN, excessive engine speed (RPM), vehicle speed, vehicle battery voltage (low battery warning), check engine light (MIL alert), odometer (trip distance)

## Interface

- Host Protocols: AT commands, UDP API
- Internal Protocols: UDP API, TCP API
- API Control/Status: AT commands, UDP API, TCP API, AT commands over SMS

## Environment

- Operating: -30°C to 85°C
- Storage: -40°C to 85°C
- Humidity: Up to 95% non-condensing
- Vibration: In accordance with SAE J1211

## Power

Operating Voltage: 9 - 16 V DC

## Certifications: (North America)

- FCC: Parts 2, 15, 22, 24
- PTCRB: Version 5.6
- CE: N/A
- GCF: N/A
- eMark: Yes
- RoHS Compliant: Yes
- Industry Canada: RSS-210, 132, 133
- AT&T: Yes
- Rogers: Yes

**Dealer/Distributor:**

