

# GPS-400 - Advanced Industrial GPS Fleet Management

## Features

- ◆ Operates over GSM/GPRS Cellular quad-band
- ◆ High Sensitivity GPS Receiver
- ◆ Low power management for 12 V & 24 V Vehicles
- ◆ Advanced Real Time GPS Update Events Engine
- ◆ Tri-axis advanced digital accelerometer for motion detection and driver behavior reporting
- ◆ Innovative internal cellular/GPS antenna
- ◆ Internal backup battery
- ◆ Voltage monitoring and low battery notification
- ◆ 3 Programmable digital inputs
- ◆ 3 Programmable digital outputs
- ◆ 2 Analog inputs (1:0-32V and 1:0-16V)
- ◆ 1 Ignition Sense
- ◆ 1 x RS-232
- ◆ Virtual Odometer and Distance Reporting
- ◆ Vehicle Speed and Speed Alerts
- ◆ Idle Reporting with Ignition Detection and GPS
- ◆ Timed GPS Reporting
- ◆ Alarm/Event Reporting
- ◆ Circular and Polygon Geofencing
- ◆ Motion/Tow Alert
- ◆ Hard Braking/Acceleration and Event Detection
- ◆ FCC and PTCRB Certified
- ◆ Optional Garmin Navigation Terminal (English)



High Sensitivity  
SuperSense GPS

### ROBUST WIRELESS UNIT PLATFORMS FOR DEMANDING FLEET APPLICATIONS.

The GPS-400 is a highly configurable, feature rich, mobile asset tracking device designed to service a wide variety of market and industry requirements. The device is an ideal solution for Mobile Resource Management, vehicle tracking and many other location aware applications and services. The GPS-400 incorporates leading edge, quality components for superior reliability including a SuperSense GPS module and many popular options.

### Tracking Software Support

**POWER-trak3** - Professional Enterprise Suite

**FleetLinc** - Web Tracking Service

**Fleet-Control AP** - Your Software



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# GPS-400 - Industrial GPS Fleet Management

## Application Flexibility

The GPS-400 is a flexible tracking and telematics solution for both public safety, energy, transportation, utilities and fleet managers who are charged with improving safety, increasing productivity and reducing costs. It is also a great solution for other programs like Insurance Telematics or Usage-Based Insurance (UBI) for Pay-As-You Drive/Pay-How-You-Drive, which give the consumer, and even fleets, more control over their insurance premiums through driver behavior reporting, speed violation alerts, distance and duration traveled, and time of day reporting. CES Wireless has assembled this complex device and other networking components supporting market specific requirements and simplifying integration for large scale deployments.

## Simple Installation

The device is easy to install by connecting the DC cable to voltage and ground ( 9 - 32 V DC operational for 12 V & 24 V vehicle support per SAE J1455). Antennas are internal to the device. Other optional connections are available. So no matter the application - fleet management, usage-based insurance, teen tracking, or any other application – or the region of the world, this device is the perfect option.

## Intelligent Event Manager

Provides programmable parameters for GPS update rate, speed exceptions, geo-zones, ignition monitoring, panic alarm and idle time etc.

## Options and Versatility

The GPS-400 configuration capabilities enable support of multiple parameters and comes with easy to use Windows programming software.

## Location Monitoring & Fleet Management Software

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

**FleetLinc** GPS Web Tracking Server (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, or

The screenshot displays the POWER-trak 3 software interface. The main window shows a Google Map with a vehicle icon labeled "Police 324" located near the intersection of Semoran Blvd and Whisper Lake Ln in Orange. A green information box is overlaid on the map, providing the following details:

- Vehicle: Police 324
- State: Active
- Streets: Near 0-911 S SEMORAN BLVD and WHISPER LAKE LN, ORANGE
- Last Position at 1/24/2014 2:51:47 PM
- Speed: 0 Mph Bearing: N (0)
- Status: N/A

The interface includes a menu bar (File, Edit, View, Window, Help) and a toolbar with various tracking and map controls. On the left, there is a "Vehicles" list with icons for Ambulance 1, Fire 001, Fire 203, Joe Flatbed, Mobil23, NEXEDGE, Police 324, and Water 251. Below the map, the status bar shows "Zoom: 14", "Latitude: 28.589345", and "Longitude: -81.329041". At the bottom, there is a "Dispatchers" section with "Admin Admin" and an "Outputs/Messages" section with tabs for "Transactions", "Event Log", "Inbox", and "Outbox". A table with columns for "Date/Time", "Transaction", "Vehicle", "Status", and "Data" is partially visible at the very bottom.

## Housing

- Dimensions: (L x W x H) 82 x 46 x 21 mm
- Rugged textured plastic enclosure UL94-Vo fire rated

## Radio Technology

- GSM/GPRS: Class B, Multislot 8
- Frequency (MHz): 850/900/1800/1900
- Transmit Power: Class 4 (2W@850/900 MHz)  
Class 1 (1W@1800/1900 MHz)
- Data Rate: 56.6 kbps Downlink/14.4 kbps Uplink

## GPS

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

## Interface / I/O

- SIM Access: Internal
- Cellular Antenna: Internal
- GPS Antenna: Internal
- I/O Connector: 22-pin Molex
  - (3) digital outputs
  - (2) analog inputs (0-16V, 0-32V)
  - (3) digital inputs
    - 1 wire interface (Driver ID)
    - Ignition Sense
- Audio (MIC+, MIC-, SPKR+, SPKR-)
- Serial Data I/O: RS-232 (RX, TX, CTS, RTS)
- Garmin® FMI: Optional, Version 2.7 with integrated safe mode (v.2.6) and speed limit alerts
- LEDs: Power (green), Cellular (green), GPS (red)

## Motion Detection

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

## Over-The-Air Commands

- FOTA (firmware updates over-the-air), I/O control, GPS TX interval, binary reporting, timed reporting, alarm reporting, maximum speed, exceeded, status change reports, GPS content, event reporting, distance reporting, geofencing, virtual odometer, driver behavior reporting.

## Environment

- Operating: Non battery version: -30°C to 85°C
- Battery version: -20°C to 60°C
- Storage: Non battery version: -40°C to 85°C
- Humidity: Up to 95% non-condensing
- Vibration: In accordance with SAE J1211

## Battery

- Optional rechargeable lithium-ion battery (230mAh)
- Battery recharging range is 0 to +45°C (Internal battery temperature)

## REGULATORY APPROVALS

- FCC: Yes
- PTCRB: 5.6
- CE: Yes
- GCF: 3.43.1
- eMark: Yes
- RoHS Compliant: Yes
- Industry Canada: Yes

## Power

Operating Voltage: 9 - 32 V DC operational for 12 V & 24 V vehicle support per SAE J1455

## CES Compatible Mapping/Dispatch Software

FleetLinc - Web Based Subscriber Service

POWER-trak3 - PC/Client/Server/Cloud/Web

FleetControl—API integrates solution to third party non-CES software systems, e.g. 911, CAD etc.

## Warranty

One Year

**Dealer/Distributor:**

