

## GPS-208 GSM/GPRS - LOW COST GPS TRACKING

The CES model GPS-208 is a low-cost, certified, quad-band, miniature, GSM/GPRS/GPS integrated device optimized for today's increasing demand for vehicle recovery, fleet management, and driver and vehicle profiling.

Designed to be adaptable to multiple vertical markets including fleet, vehicle recovery, insurance, buy-here-pay-here and more, the new GPS-208 is offered as an economical solution, providing enhanced vehicle tracking solutions to the market. The device comes with GSM and GPS internal antennas, intelligent reporting engine, inputs and outputs to ensure a feature rich solution with low implementation and operation

Optimized for the mass market, this unit can capture and monitor information for today's most demanding fleet and vehicle recovery applications, relaying detailed information real time.

With an optional battery for communications when power is lost, the GPS-208 is optimized for a host of vertical markets where critical vehicle information is required.

The GPS-208 operates in conjunction with the CES Wireless enterprise POWER-trak3 PC/Desktop/Server/Cloud software, FLEETLINC Web based subscriber service, or FleetControl Application Programming Interface (API for third party software developers). These affordable and advanced software systems provide for multiple channel, multiple protocol and multiple dispatcher solutions. Please refer to the separate software brochures for these products for detailed information.

- Internal GPS antenna—Internal GSM antenna
- Quad Band: 850/900/1800/1900
- Auto-registration on power up
- 16-pin Molex Connector
- 4 wire USB (2.0)
- Ignition Sense
- Power (green), Cellular (green), GPS (red) LED's
- Optional rechargeable lithium-ion battery 230mA)
- Voltage 9 - 16 V DC
- Automatic Acknowledgment
- Automatic Message Retry
- Message Management and Memory
- Track on Poll—Timed Interval— Speed Exception
- Track on Auxiliary Input Changes
- Emergency Tracking
- Command Outputs x 2
- Sensor/Control Inputs x 3
- Virtual Odometer Updates



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## GPS-208 FEATURE OVERVIEW

### Intelligent Fleet Management with GPS Tracking

#### Location Updates

The GPS-208 can be programmed to provide timed GPS updates, e.g. every 5 minutes. The time period is programmable, which is dependant on needs. Additional intelligent programming provides for different update rates based on different preprogrammed exceptions.

The GPS-208 can also be programmed to provide GPS updates based on distance travelled.

#### Speed Exceptions

The GPS-208 can be programmed to provide notification when a preprogrammed speed is exceeded.

#### Mileage

The GPS-208 provides GPS based mileage (virtual odometer) reports for use in vehicle maintenance software and reports.

#### Poll

The dispatcher can send a command to the GPS-208 at any time and receive its current location automatically.

#### Ignition On and Off

The GPS-208 provides ignition on and off activation updates to enhance reporting.

#### Auxiliary Inputs and Outputs

The GPS-208 provides auxiliary inputs and outputs to monitor and control vehicle activities. Inputs can be connected to ignition, doors, siren, seat belt indicator, money shoot etc. When a state changes (open or close) the exception is reported back to the dispatch center.

Auxiliary outputs allow the dispatcher to control the vehicle, e.g. honk horn, turn lights on, kill ignition.

#### Data Logging

The GPS-208 has the capability of automatically storing vehicle activity and location for temporary periods of time. This may be required when the vehicle is outside the wireless geographical coverage area or indeed a faulty antenna. Once the vehicle returns to the wireless coverage area, all of the data stored in memory is downloaded to the dispatch center.

#### Intelligent Processes

Auto-registration on power up, Automatic Acknowledgment, Message Management and Memory and Automatic Message Retry are some of the internal intelligent processes for seamless trouble free operation.

#### Programming Software

The GPS-208 is provided with user friendly Windows programming software for fast system deployment.

## SPECIFICATIONS

Dimensions (L x W x H) Housing	82 x 46 x 21 mm Rugged textured plastic enclosure, V0 fire rated
Frequency (MHz) Transmit power	850/900/1800/1900 Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)
Mode Protocol Coding Schemes Packet Channel	Class B, Multislot 2 GSM/GPRS Rel 97, AMR Rel 99 CS1-CS4 PBCCH/PCCCH
GSM SMS	Text, PDU, MO/MT, Cell Broadcast
GPS Protocols Buffered GPS Message Feature	NMEA, Binary Yes
SIM Access GSM Antenna GPS Antenna I/O Connector	Internal Internal antenna Internal antenna 16-pin Molex 4 wire USB (2.0) 3 digital input 2 digital outputs (one latched) Ignition Sense
Indicators	Power (green), cellular (green), GPS (red)
Operating Storage Humidity Vibration	-30°C to 85°C -40°C to 85°C Up to 95% non-condensing In accordance with SAE J1211
Battery	Optional rechargeable lithium-ion battery (230mA)
DC Power	9 - 16 V
Certifications	
FCC GCF PTCRB CE RoHS Compliant Anatel eMark Industry Canada AT&T ICASA	Parts 15, 22, 24 Version 3.40.0 Version 5.6 Article 3.1a, 3.1b, 3.2 Yes Yes Yes RSS-210, 132, 133 Yes Yes (pending)