



# SP3600 Series

## GPS Tracking Device for Vehicles

These cost effective GPS tracking products are dependable quad-band GSM/GPRS devices, delivering the key features fulfilling the most demanding applications: fleet management, insurance telematics, dispatch, vehicle location and recovery, and more.



### FEATURES

- 16G G-Force Sensor
- 2G/3G Modem Versions
- 28 Hardware Based Geofences
- Conditional Based Profile Management
- Dual/Quad Band GSM Modem
- Easy Installation
- FOTA (Firmware Update Over The Air)
- GSM Jamming Detection
- HDOP for Precise Location
- Intelligent Power Management
- Internal GPS and GSM Antennas
- Multiple Data Upload Modes
- Over Speed Management
- Captures Driving Behaviors
- Internal Back-up Battery

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## Specifications



### GENERAL

Communication Modes	GPRS/EDGE and TCP/UDP/SMS
Location Technology	50 Channels GPS
Operating Voltage	12 and 24 Volt Vehicle Systems

### GPS

Location Technology	50 Channel Ublox GPS (With SBAS) GPS L1 C/A Code SBAS, WAAS, EGNOS, MSAS
Accuracy	SBAS 2.0m CEP
Tracking Sensitivity	-162dBm
Antenna	Internal ceramic (life cycle 5 years)
Channels	50 parallel channels
Assist GPS	Supported

### CELLULAR

Data Support	SMS, TCP, UDP
Modem	Cinterion BGS-2W (life cycle 4.5 years)
GSM/GPRS	Quad Band 850/900/1800/1900MHz
GSM/GPRS O/P Power	Class 4 (2W) for 850/900 Bands Class 1 (1W) for 1800/1900 Bands
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (opt.)
Fall Back	GPRS Class 10
SIM Card	1.8/3.3 V

### INPUT/OUTPUT

Digital Input	2
Ignition Sense	One Dedicated Wire for Ignition Sense
Programmable Input	One Configurable Input Negative Trigger Digital Input or Analog Input
Digital Output	Two Digital Outputs, Open Drain, 300mA Drive Current Max
Latched Digital O/P	One Digital Output With Internal Latch Circuit, Open Drain, 150mA Drive Current Max
MIC	One Single End Audio Input
Status LEDs	Power, GPS, Cellular

### ON BOARD

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
2-Axis Accelerometer	Built-In
Vibration Sensor	Built-In

### ELECTRICAL

Operating Voltage	8-32V DC operational for 12V & 24V vehicle support per SAE J1455
Battery	Li-PO 250mAh (Life Cycle 500 Charge) Recharging range: 0 To +45°C
Power Consumption	3mA 12V (sleep) 70mA 12V (power save) 100mA 12V (active tracking)

### PHYSICALS

Dimension	80 x 52 x 26 mm
Weight	80g (without battery)

### ENVIRONMENTAL

Temperature	-40°C To +80°C (non-battery version) -10°C To +50°C (battery version)
Humidity	95% RH @ +50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1455; FCC – Part 15B

### CONNECTORS, SIM CARD ACCESS

Connector Type	10 Pin
Mini USB	1
Power Switch	Built-in
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal

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