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SP3824

Ultra-Compact GPS Tracker

The SP3824 is our latest generation GPS tracking device optimized to meet all carrier and country certifications. The SP3824 is designed to withstand the harshest of conditions associated with vehicle telematics. This latest generation device can be widely used across all vehicle location applications ranging from Subprime Automotive needs, to Fleets, to Consumer telematics. The SP3824 has multiple input/output interfaces that can be used for monitoring or controlling external devices. The SP3824 features the latest in cellular antenna designs with optimization and improved logic to reach and operation in the most challenging urban and rural environments. The SP3824 is equipped with the latest firmware design with optimized over-the-air capability. Users can also use the SP3824 to monitor the status of a vehicle and the control the vehicle by its external relay output.



FEATURES

- LTE: B2/B4/B12/B13
- Update firmware over-the-air
- Integrated cellular and GPS antennas
- Excellent GPS tracking and acquisition sensitivity
- Integrated high-precision GPS engine
- Support UDP and SMS for data communications
- 1 Ignition Input
- 2 Digital Outputs
- Micro-sized device allowing easier and more covert installations
- Cost effective solution for GPS tracking

SP3824 Series

Specifications



GPS

Receiver	Qualcomm Gen 8C GNSS receiver
Sensitivity	Cold Start: -148 dBm Tracking: -159 dBm
Accuracy	Autonomous: < 2.5mm
Cold Start	30s average
Hot Start	1s average

CELLULAR

Operating Bands	LTE B2/B4/B12/B13
Data Transmission	eMTC (DL) 300Kbps eMTC (UL) 375Kbps

INPUT/OUTPUT

Digital Input	One positive trigger for ignition detection
Digital Outputs	Two digital outputs, open drain, 150 mA max drive current
Communication Port	One TTL UART port for upgrading and debugging
Indicator LED	CELL and GPS

ELECTRICAL

Operating Voltage	DC 8V to 32V
Backup Battery	Li-Polymer 190 mAh

PHYSICAL

Dimension	87mm x 55mm x 12.5mm
Weight	50g

ENVIRONMENTAL

Operating Temperature	-30°C ~ +80°C
Storage Temperature	-40°C ~ +85°C

AIR INTERFACE

Scheduled Timing Report	Report position and status at preset intervals
Geo-Fence	Geo-fence alarm, support up to 5 circular or polygon geo-fence regions
Power On Report	Report when the device is powered on
Data Support	UDP and SMS

CONNECTORS

Connector Type	Molex 7 pins
GPS Antenna	Integrated
Cell Antenna	Integrated

COMPLIANCE

FCC Compliance	Part 15 Class-B
Verizon Network	LTE

MOUNTING

Tie Wrap, Velcro, or Adhesive

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