Vehicle Recovery and Fleet Management

Maximize efficiency. Minimize risks. Manage assets.

SP6824

The SP6824 tracker is a real-time vehicle tracking system designed for vehicle recovery, fleet management, and more..

IT'S RELIABLE

The ultra-thin yet durable SP6824 is a high-performance cellular tracking and IP67 rated device designed for vehicle financing, vehicle tracking, lot management, theft recovery, or other fleet applications. With an integrated GNSS receiver, the SP6824 includes an LTE Cat-M (or NB-IoT) modem for wireless data communication. The built in high performance antennas for both cellular radio and GNSS receivers make installation easy.

IT'S SIMPLE

No programming skills required; the SP6824 comes with easy-to- configure application software and an extended AT command set. Reports can be triggered periodically or in response to events such as motion, speeding, harsh acceleration and braking, geo-fence violations, and battery status. Notifications can be sent for vehicle towing, battery removal, and more.

IT'S FUNCTIONAL

The SP6824 interface supports serial communication with external terminals and devices, as well as IO options dedicated to ignition, starter inhibit, and buzzer.

A built in 3-axis accelerometer enables motion detection and monitoring of driver behavior. An internal Lithium-Ion back up battery allows for continuous operation for up to 4 hours when the device is disconnected from the main power. An optional buzzer alert system for driver warnings is available inside the unit.

The application firmware is flexible and can be customized to be compatible with your existing server at special request.

HIGHLIGHTS

- LTE Cat-M1, NB-IoT & GPRS
- Integrated cellular and GNSS antenna
- LED status indicators for GNSS and network registration
- Integrated accelerometer for monitoring vehicle status & driver behavior
- I/O options for starter inhibit, ignition, and buzzer
- BLE5.0 support, low power consumption
- Rechargeable backup battery
- SMS, UDP, TCP, FTP & MQTT
- Up to 16 Geo-fences (polygon and circles)
- Over the air configuration and firmware update
- Extended AT Command set for flexible and easy configuration
- Small size and easy installation
- OPTIONAL FEATURES

  Internal Buzzer

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Specifications:

CELLULAR
- LTE Cat-M1, NB-IoT
- LTE-FDD Bands : 1/2/3/4/5/8/12/13/17/18/19/20/25/26/28
- LTE-TDD B39 (For Cat.M1 only)
- GSM : 850/900/1800/1900
- Integrated high performance antenna

GNSS
- GPS, GLONASS, Beidou & Galileo
- Tracking Sensitivity : -161 dBm
- Acquisition Sensitivity : -146 dBm
- Location Accuracy : < 2.5CEP

BATTERY INFORMATION
- Type : Li-ION
- Capacity : 80mAh @ 3.7V

Battery Life : Up to 4hours @ hibernation mode, 1 report per hour.(depends on the LTE signal strength and how many reports per hour)

ENVIRONMENTAL
- SP6824 : IP54 Rating
- SP6824 : IP67 Rating
- Operation Temperature: -30°C to +75°C without Battery
- Operation Temperature: -20°C to +60°C With Battery
- Storage Temperature: -40°C to +85°C

ELECTRICAL
- Operating Voltage: 8V – 36V
- Over voltage protected
- Over current protected with resettable fuse
- Power Consumption:
  - ✓ GPS Acquisition : ~ 48mA @ 12V
  - ✓ GPS Tracking/Reporting : ~ 74mA @ 12V
  - ✓ Sleep mode : < 1mA @12V

BLUETOOTH
- BLE 5.0, low power consumption

PHYSICAL
- Dimensions: 93.0 x 51.0 x 15.3 mm
- Internal Cellular and GPS Antennas
- Weight : ~80g

INTERFACE CONNECTORS

Cable Harness :

10-Pin built-in flat Cable

- ✓ PWR, GND (*2)
- ✓ UART (RX/TX) (*2)
- ✓ I/Os : Ignition, starter inhibit (Sink current 500mA Relay driver) and GPIOs (*6)

APPROVALS
- FCC 47 CFR Part 22, and Part 24
- PTCRB & Carrier Approved

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