skypatrol





SP9824

LTE Waterproof Standby Asset Tracker

The Skypatrol SP9824 is an easy-to-deploy asset tracker built with innovative power management technology. It lasts up to seven years and features one of the longest battery lives among devices its size in the market. The built-in light sensors make the product sensitive to tamper attempts and its waterproof design allows it to be used in harsh environments. With internal temperature and light sensors, the product is ideal for a wide range of environmental monitoring applications such as cold chain logistics, warehouse management, cargo trucking, high-value static asset monitoring and more. It also is used for auto financing applications.

Special Features

- Global LTE CAT M1/NB1 with 2G fallback
- Up to 7-year standby time



- Waterproof, compliant to IP67
- Self-Powered with no need for vehicle power or external charger
- No installation required (put in the glove box, console or discrete location)
- Ideal for asset monitoring and lot management

SP9824

LTE Specifications

Cat M1/Cat NB1:

Operating Band LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28

LTE-TDD: B39 (for Cat.M1only)

eMTC (DL) 375 Kbps

eMTC (UL) 375 Kbps **Data Transmission**

NB1(DL) 32 Kbps NB1 (UL) 70 Kbps

EGPRS Specifications

Frequency EGPRS 850 / 900 / 1800 / 1900 MHz

GPRS multi-slot class 33 (33 by default) **Data Transmission**

EDGE multi-slot class 33 (33 by default)

GNSS Specifications

u-blox All-in-One GNSS receiver **GNSS Type**



Sensitivity

Autonomous: -147 dBm

Hot start: -156 dBm

Reacquisition: -160 dBm

Tracking: -162 dBm

Position Accuracy (CEP) Autonomous: < 2.5m

TTFF (Open Sky)

Cold start: 27s average
Warm start: 27s average

Hot start: 1s average

General Specifications

Dimensions

 $87 \times 51 \times 30$ mm

3.43"(L) × 2.01"(W) × 1.18"(H)

 $87 \times 51 \times 33.5$ mm

 $3.43''(L) \times 2.01''(W) \times 1.32''(H)$ (magnetic case mounting version)

Weight 140g (4.94oz)

160g (5.64oz) (magnetic case mounting version)

Backup Battery 3 CR123A lithium batteries, 1400 mAh

Standby current: < 8 µA

Standby Time 1 report per day (GNSS on): 5 years

1 report per day (cell ID only): 7 years

Waterproof IP67 compliant

Operating Temperature -25°C ~ +60°C

Internal Temperature

Sensor

For temperature monitoring

Accuracy: ±1°C



Internal Light Sensor For tamper detection

Internal Motor For vibration feedback after successful operation of function button

Magnetic Mounting Case (Optional)

For easy installation on metal surface

Interfaces

Function Button Used for power on/off and working status checking

LTE Antenna Internal only

GNSS Antenna Internal only

LED Indicators GNSS, PWR

Air Interface Protocol

Command Set @Track protocol command

Transmit Protocol TCP, UDP, SMS

Power saving mode for long standby time **Working Modes**

Continuous mode for emergency tracking

Scheduled Timing

Report

Report position and status at preset time intervals

Geo-fences Support up to 5 internal geo-fence regions



Low Power Alarm Alarm when internal battery is low

Wakeup Report Report when the device wakes up

Motion Detection Motion detection based on internal 3-axis accelerometer

Reporting Frequency

Adjustment

Intelligent adjustment of reporting frequency