



skypatrol®

SP8801

Personal GPS Tracker

The Skypatrol Personal GPS makes it possible to quickly track and locate people and gives users the capability to alert others. Perfect for children, seniors and the disabled. In business, track field personnel such as police/security officers, sales reps and couriers. The SP8801 features real-time tracking using a smart phone or PC. Simply go online, download our App and see exactly where they are and where they are going. You can even set alerts if they wander from boundaries that you define. If they need help, the push of a button tells the customizable alert system to send a text message or email. Just place the GPS Tracker in a purse, backpack or pocket.



FEATURES

- GPS Locator with Compact Size
- Water Resistant IPX5 Compliant
- Dual Band BC0/BC1 Compliant to CDMA2000-1x RTT
- Transmit Protocol: TCP/UDP/SMS
- Aggressive GPS/GNSS Chipset with Ultra Sensitivity
- Up to 5 Built-in Geofences
- Low Power Consumption, Long Standby Time with Internal Battery
- Full Power Management
- Internal CDMA/GNSS Antennas
- Function Button, 100% Portable
- Instant notifications sent to email or SMS text when message button is pushed
- Thumb Sized Button Allowing Easier Activation
- Built-in 3D Motion Sensor
- GNSS Autonomous Sensitivity: -147 dBm for Fast TTFF and High Accuracy
- Web-Based Device Management
- FOTA & OTA Capability
- Alarm when Battery is Low

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Specifications



CDMA

Frequency	BC0/BC1 compliant to CDMA2000-1x
Max. Data Rate	153.6 Kbps
Max. Out RF Power	23 ~ 25 dBm
Min Out RF Power	< -50 dBm
Dynamic Input Range	-25 ~ -110 dBm
Receiving Sensitivity	BC0 -110 dBm, BC1 -107 dBm
Max. Frequency Error	800 MHz band: ± 300 Hz, 1900 MHz band: ± 150 Hz

GNSS PERFORMANCE

GNSS Receiver Type	72-channel u-blox M8 engine
Sensitivity	Autonomous: -147 dBm Hot start: -155 dBm Tracking: -162 dBm Reacquisition: -160 dBm
Accuracy	Autonomous: 2.5m CEP SBAS: 2.0m CEP
TTF (Open Sky)	Cold start: 30s Warm start: 27s Hot start: 1s

USER INTERFACES

Power Button	On/Off
Message Button	To send notifications
CDMA/GNSS Antennas	Internal only
Indicator LED	CDMA, GNSS and battery status
Mini USB Interface	For external power and configuration
Digital Input	2

INTERFACE PROTOCOL

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status according to preset time schedules
Geofence	Up to 5 geofence regions can be defined
Power On/Off Report	Report when the device is powered On or Off
Low Power Alarm	Alarm when battery is low
Special Alarm	Special alarm based on digital input
Motion Detection	Motion alarm based on internal 3-axis accelerometer

ELECTRICAL

Charging Voltage	5V DC
Internal Battery	Li-Polymer 1300 mAh, 3.7 V
External Battery Voltage	3.5V to 4.5V DC

PHYSICALS

Dimension	78.5 x 38.5 x 22.5mm
Weight	70g
IP Rating	Water resistance IPX5 compliant

ENVIRONMENTAL

Operating Temperature	-20°C ~ +55°C
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