



# SP8503

## Compact Portable GPS Tracker

The Skypatrol SP8503 Personal GPS is ideally sized for portability, concealability and durability and is perfect for tracking field personnel, seniors and children. In business, the SP8503 can be used to monitor and measure employee movement, but also provides an added level of security with the user activated alert button. Typical applications include police/security officers, sales reps and couriers. For the family, give them peace of mind with a portable GPS. You will be able to locate them on any smartphone or PC, and they will be able to alert you with an email or SMS text message. You can even set alerts if they wander from boundaries that you define.

### FEATURES

- 3G and Wifi connectivity
- Superior GPS performance
- 3-Axis accelerometer for motion alert with configurable thresholds
- Rechargeable Lithium-Ion 2000mAh
- Ultra low power consumption on sleep mode
- Smart SOS button
- Voltage monitoring, low battery notifications
- Automatic configuration over-the-air on power up
- On board temperature sensor
- Internal cellular antenna
- Inductive charging
- External SIM access

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## Specifications



### GPS

Receiver	50 channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	Yes

### CELLULAR

Data Support	SMS, UDP or GPRS/EDGE/HSPA packet data
Operating Bands	GSM/GPRS: 850/900/1800/1900 HSPA/UMTS: 850(V)/900(VIII)/1900(II)/2100(I) HSPA Fallback: EDGE/GPRS/GSM Quad Band
Transmitter Power GSM/GPRS	850/900 32.5dB 1800/1900 29.5dB

### USER INTERFACES

Cellular Antenna	Internal only
Serial Port	via USB cable
Bluetooth	Optional
Wifi	Yes
Smart SOS Button	Yes
Notifications	Voltage monitoring, low battery
SIM Access	External

### ON BOARD

3-Axis Accelerometer	Built-in for motion alert with configurable thresholds
Light Sensor	Optional
Temperature Sensor	On board

### ELECTRICAL

Operating Voltage	4.2V internal battery pack
Power Consumption	Typical 200µA @4.2V (deep sleep) Typical 21.5 mA @ 4.2V (SMS+UDP connection, GPS off) Typical 89.9 mA @ 4.2V (continuous transmit)
Battery	Rechargeable Lithium-Ion 2000mAh
Power on Sleep Mode	Ultra low
Configuration	Automatic over-the-air on power up

### PHYSICALS

Dimensions	68.6 x 40.1 x 29.1 mm
Weight	62g

### ENVIRONMENTAL

Temperature	-23°C to +85°C (operating) -40°C to +85°C (storage)
Humidity	Up to 95% non-condensing
Certifications	FCC/PTCRB/IC/CE/ROHS/AT&T
RoHS	Compliant

### OTHER

Inductive Charging	Yes
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