



# SP9600 Series

## Portable GPS Asset Tracker

The Skypatrol SP9600 Series are ideally suited to tracking mobile assets for prolonged periods. Any time you need to know the current location or progress in transport of valued items this is the ideal solution. Typical uses are for shipping containers, critical medical supplies, heavy equipment, military gear, vehicles, and more.

The SP9600 Series have a unique design that allows users to choose between replaceable or rechargeable batteries. Powered by CR123 replaceable batteries with a total capacity of 6000mAh provides enough stored energy to send one message per week for three years. The SP9600 devices can also accommodate rechargeable batteries and can be charged via external power connector.

### FEATURES

- 3G Modem
- AGPS 50 Channel High Sensitive Module
- Battery Strength Indication
- Dual Communication (GPRS + SMS)
- Geofence Management
- GSM Tower Based Location (Secondary)
- Intelligent Power Management
- Water Resistant Design with IP 67 Rating
- Magnetic Holder (Optional)
- Quad Band GSM Modem
- 6000mAh Replaceable Battery
- Extended Power Pack (Optional)
- Can operate unattended for up to 6 years
- Firmware Updates Over the Air (FOTA)
- Configurable Input

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## Specifications



### GENERAL

Communication Modes	GPRS/EDGE and TCP/UDP/SMS
Location Technology	50 Channels GPS
Operating Voltage	3~5V DC

### GPS

Location Technology	50 Channel Ublox GPS (with SBAS) GPS L1 C/A Code SBAS, WAAS, EGNOS, MSAS
Accuracy	SBAS 2.0m CEP
Tracking Sensitivity	-162dBm
Antenna	Patch Internal
Assist GPS	Supported

### CELLULAR

Data Support	SMS, TCP, UDP
GSM/GPRS	Quad Band 850/900/1800/1900 MHz
3G Dual Band US	850/1900 MHz (optional)
3G Dual Band EU	900/2100 MHz (optional)
GSM/GPRS O/P Power	Class 4 (2W) For 850 / 900 Bands Class 1 (1W) For 1800 / 1900 Bands
GSM/GPRS Fallback	GPRS Class 10
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (optional)
SIM Card	1.8/3.3 V

### INPUT/OUTPUT

Status LEDs	GPS, Cellular, Power
Light Sensor	Detect Detach
Charging Cord	Two Point Charging Cord
Digital Input	1 Digital Input (optional)

### ON BOARD

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
3D Accelerometer	Built-in
Light Sensor	Built-in

### ELECTRICAL

Operating Voltage	3-5V DC
Power Consumption	150µA 3.5V (sleep) 300µA 3.5V (power save) 100mA 3.5V (active tracking)
Replaceable Battery	CR123 x 4 (6000mAh)
Rechargeable Battery	LI-PO (3400mAh) (optional) Recharging range: 0 to +45°C

### PHYSICALS

Dimension	96 x 50 x 31.5mm
Weight	140g (with Lithium battery) 160g (with CR123A battery)
IP Rating	IP67

### ENVIRONMENTAL

Operating Temperature	-40 ~ +60°C (with CR123 battery) -10 ~ +50°C (with R/B)
Humidity	100%RH @ 50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC – Part 15B
RoHS	Compliant (optional)

### CONNECTORS, SIM CARD ACCESS

Connector Type	4 Pin
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal (embedded SIM optional)

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