



SP5600 Series

Motorcycle and Powersports GPS Tracker

The Skypatrol SP5600 series of GPS tracking devices are compact, water resistant and perfectly suited to installation in motorcycles and other powersport vehicles including ATV's, jet-skis, snowmobiles and boats. The electronics are designed for low power consumption so it preserves the powersport vehicle's battery. The SP5600 devices also include an internal backup battery and a GSM jamming detection system. With multiple I/O it also has distance traveled, change course, time and event and I/O upload modes options. This user-friendly design is easy to install and operate.

FEATURES

- AGPS 50 channel high sensitive module
- 2G/3G Modem Versions
- Analog Input
- Built-in GSM & GPS Antenna
- Distance Data is Captured
- Geofence Management
- GSM Jamming Detection
- High Sensitive uBlox GPS w/ 50 Channels
- Low Power Consumption
- Quad Band GSM Modem
- Serial Port for External Interface (Optional)
- Waterproof IP65 design
- Firmware Updates Over the Air (FOTA)
- HDOP/VDOP for Precise Location
- Internal Back-up Battery

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Specifications



GENERAL

Communication Modes	GPRS/EDGE and TCP/UDP/SMS
Location Technology	50 Channels GPS
Operating Voltage	12 and 24 Volt Vehicle Systems

GPS

Location Technology	50 Channel Ublox GPS (With SBAS) GPS L1 C/A Code SBAS, WAAS, EGNOS, MSAS
Antenna	Internal Ceramic (Life Cycle 5 Years)
Channels	50 Parallel Channels
Accuracy	SBAS 2.0m CEP
Sensitivity	-162dBm (Tracking Mode)
Assist GPS	Supported

CELLULAR

Data Support	SMS, TCP, UDP
Modem	Cinterion BGS-2W
Frequency	850/900/1800/1900MHz
GSM Output Power	Class 4 (2W) for 850/900 Bands Class 1 (1W) for 1800/1900 Bands
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (opt.)
Fall Back	GPRS Class 10
SIM Card	1.8/3.3 V

INPUT/OUTPUT

Digital Input	2 Digital Inputs
Ignition Sense	One Dedicated Wire for Ignition Sense
Programmable Input	One Configurable Input Negative Trigger Digital Input or Analog Input
Digital Output	Two Digital Outputs, Open Drain, 300mA Drive Current Max
Latched Digital O/P	One Digital Output With Internal Latch Circuit, Open Drain, 150mA Drive Current Max
MIC	One Single End Audio Input
Status LEDs	Power, GPS, Cellular

ON BOARD

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
2-Axis Accelerometer	Built-In

ELECTRICAL

Voltage	8-32V DC
Battery	LiPo 3.7V 1000mAh
Power Consumption	3mA (Sleep) 70mA (Power Save) 100mA (Active Tracking)

PHYSICALS

Dimension	77 x 54 x 24 mm
Weight	80g (without battery)
IP Rating	IP65

ENVIRONMENTAL

Temperature	-10°C To +50°C (w/ backup battery) -40°C To +80°C (w/o backup battery)
Humidity	95% 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	10 Pin Molex
Mini USB	1
Power Switch	Built-in
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal

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