Skypatrol product specifications

TT8850

Quad-Band GSM frequencies 850/900/1800/1900

SERIES



- Water Resistant, IPX5 Standard.
- Global Quad Band with GSM/SMS/GPRS/TCP/UDP.
- Aggressive GPS Chipset with Ultra Sensitivity.
- Low Power Consumption, Standby up to 25 days.
- 10-12 days of continuous tracking on one battery charge.
- Extreme Power Management.
- Optimized Binary Protocol, Minimizing Data Transfer Costs.
- 3D Motion Sensor for Motion Detection and Power Management.
- Covert Color, Panic Button, 100% Portable, Snap-on Magnetic Mounting Accessory. (Optional)





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TT8850

Unit designed for vehicles, assets and pets

Key Features

- Water Resistant
- Built in 3D Motion Sensor
- Ouad Band GSM/GPRS
- **Fully Power Management**
- **RoHS Compliant**
- -160 dBm Tracking Sensitivity
- 3 Built-in Geo-fences

- -147 dBm Autonomous Sensitivity for Fast TIFF and High Accuracy
- MMCX type RF Connector for External GPS Antenna.
 - 3.000+ Buffered Messages
- Low Power Consumption, Long standby time
- Web-Based Device Management
- **GPS Locator with Compact Size**
- FOTA & OTA Capability

GSM Specifications

Quad-Band: 850/900/1800/1900MHz Frequency Compliant to GSM phase 2/2+

-Class 4 (2W@ 850/900MHz) -Class 1 (1W@1800/1900MHz)

GPRS GPRS multi-slot class 12 GPRS mobile station class B

RMS Phase Error 5 deg

Max Out RF Power $33.0 dBm \pm 2 dBm$ Dynamic Input Range -15~-102 dBm

Receiving Sensitivity Class II RBER2% (-102 dBm) Stability of Frequency Greater than 2.5ppm Max Frequency Error ± 0.1 ppm

General Specifications

67.5mm * 40mm * 21mm Dimension

Weight 60g

Backup Battery Li-Polymer 1300 mAh, 3.7 V Standby Time Without reporting: 300 to 400 Hours

> 5 minutes reporting: 100 to 150 Hours 10 minutes reporting: 150 to 200 Hours

External DC Voltage 5 V DC

External Battery Voltage 3.5 V lo 4.5 V DC Water Resistance Follow IPX5 Standard

GPS Specifications

GPS Chipset All-In-One GPS Receiver Sensitive,

Fast and Accurate

Sensitivity Cold start -147dBm

Reacquisition -160dBm

Tracking -160dBm

Autonomous: < 2.5 m **Position Accuracy**

SBAS: 2.0 m

TTFF (Open Sky) Cold start 29s

> Warm start < 29s

Interface Protocol

TCP, UDP, SMS Transmit Protocol

Scheduled Timing Report Report Position follows a pre-set fix

interval and report interval

Geo-Fence 5 Geo-Fence regions can be defined Low Battery Alarm Alarm when backup battery is low Power On Report Report when the device is powered ON Power Down Alarm Report when the device is turned OFF SOS/Emergency Alarm

SOS alarm when function key is pressed

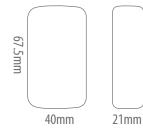
User Interfaces

Mini USB Connector Power Button

Include external power and UART For power ON and power OFF. Can be disabled by the air interface protocol

For SOS alarm or quick setting of GeoFence **Function Button**

MMCX RF Connector For external GPS antenna



Specifications subject to change.



