

Skypatrol product specifications

TT8850

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

micro

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)



GPS Tracking Solutions

skypatrol®

TT8850

Unit designed for vehicles, assets and pets

micro

Key Features

- Water Resistant
- Built in 3D Motion Sensor
- Quad 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

Frequency	Quad-Band: 850/900/1800/1900MHz 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 ± 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	±0.1ppm

General Specifications

Dimension	67.5mm * 40mm * 21mm
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 to 4.5 V DC
Water Resistance	Follow IPX5 Standard

SERIES

GPS Specifications

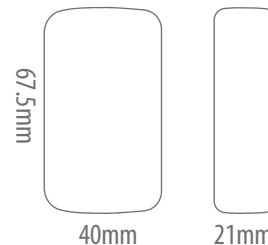
GPS Chipset	All-In-One GPS Receiver Sensitive, Fast and Accurate
Sensitivity	Cold start -147dBm Reacquisition -160dBm Tracking -160dBm
Position Accuracy	Autonomous: < 2.5 m SBAS: 2.0 m
TTFF (Open Sky)	Cold start 29s Warm start < 29s Hot start < 1s

Interface Protocol

Transmit Protocol	TCP, UDP, SMS
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	Include external power and UART
Power Button	For power ON and power OFF. Can be disabled by the air interface protocol
Function Button	For SOS alarm or quick setting of GeoFence
MMCX RF Connector	For external GPS antenna



Specifications subject to change.



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