Product Brief

SPT100

SPT100

High Performance High Sensitivity GPS Smart Personal Tracker

GENERAL DESCRIPTION

SPT100 is a small and powerful GPS, GSM/GPRS tracking device that is designed for personal remote positioning and emergency reporting. SPT100 is suitable for many applications such as human body or vehicle security etc. Instantly locate and report your position by using GPS, SMS/ GPRS solution, three quick dial keys for emergency calls, and one panic button for emergency alarm, the SPT100 is your best choice for remote positioning and security companion.

SPECIFICATION

- GSM 850/900/1800/1900
- GPRS class 10, TCP/UDP
- GPS 20 channels “All-In-View” tracking
  Cold/Warm/Hot start time: 42/38/1 sec.
  Superior sensitivity: -159dBm tracking
- Built-in rechargeable 1100mA/h Li-ion battery
- Built-in 4MB Flash Memory for data logger
- Built-in speaker and microphone
- Built-in 3D G sensor for power management
- 128 x 64 LCD display (with back-light function)
- Ultra low power consumption: GPS/GSM stand by time up to 60 hours
- Mini USB port for charging and data exchanging

FUNCTIONALITY

- Get current location
- Tracking (by time interval, distance interval or smart mode)
- Journey logging up to 100,000+ locations
- Emergency alarm
- Emergency calls
- Geo-fencing control
- Battery power low alarm
- Power management
- Motion alarm
- Voice communication
- Voice wiretapping
- User report alarm
- GSM/GPRS simultaneously
- Firmware upgrading remotely
- Unit password setting
- SIM Pin Code setting

SPECIFICATIONS

GPS Features

Chipset	SiRF Star III
Frequency	L1, 1575.42MHz
C/A Code	1.023MHz chip rate
Channels	20 channels
Antenna (Internal)	Built-in low noise antenna

GPS Sensitivity

To – 159dBm Tracking, Superior Urban Canyon Performance

GPS Time to First Fix (TTFF)

Cold Start	42sec, average
Warm Start	38sec, average
Hot Start	1sec, average
Reacquisition	0.1sec
Update rate	1Hz (max.)

GPS Accuracy

Position	5 – 25m CEP without SA
Velocity	0.1m/sec, without SA
Time	1μs synchronized to GPS time

Power

Built-in rechargeable 1100mAh Li-ion battery

Operation Current	<75mA (GSM/GPS/LCD/G-sensor "ON")
Operation Time	15hrs,fully charged (GSM/GPS/LCD/G-sensor "ON")
Charging time	3.0hrs. (Typical)

Environmental Characteristics

Operating Temperature	- 20°C to + 60°C
Humidity	5% to 95% non-condensing

Datum

WGS-84

Dynamic Conditions

Altitude	<18,000m (60,000 feet)
Velocity	<515m/s (1000 knots)
Acceleration	<4G
Motional Jerk	20m/sec^3 max.

Interface

GPS Protocol: Default: NMEA-0183 - GGA, GSA, GSV, RMC, VTG

Data bit: 8, stop bit: 1(Default)

GSM 850/900/1800/1900

GPRS class 10, TCP/UDP

Mini-USB for charging and data exchanging

Device Size and Weight

79.05 (L) X 51.30 (W) X 25.90 (H) mm

3.11 (L) X 2.02 (W) X 1.02 (H) inch

81g (battery included)

Mode Selection

1. Normal mode
2. GPS status mode
3. Phone call Dialing mode

All specifications are subject to change without notice