

# Personal Tracker Ct-Tracker-08



## Specification V0.4

### Features :

- Tri band GSM 900/1800/1900
- Support XMPP (Google Earth) & TCP/IP
- Simple digital data logger, the interval data log by time or distance, and with 5 optional data sentence.
- Dimension: 88.5x40x19.95mm

## Introduction

Ct-Tracker-08 is a small and powerful GPS/GSM/GPRS tracking device that is developed for personal remote positioning and emergency reporting. Ct-Tracker-08 is suitable for many applications, such as human body or pet monitoring and vehicle security, among others. Not only is it able to transmit the longitude and latitude coordinate to your cell phone by SMS, but also transmits the longitude and latitude coordinates to your PC via the GPRS Internet connection and then displays the location with specific map software. There are four quick dial buttons for fast dialing to pre-set numbers. And the SOS keys can send out short message with GPS information in an emergency.

With the superior sensitivity GPS chip on board, the Ct-Tracker-08 can easily get a fix, even in urban canyon conditions. Users can also benefit from its compact size, its light weight and long working hours (Its GSM stand by time up to 65 hours). Its build-in G-sensor can help save battery power and reduce drifting data when the tracker is not moving. Over all, the Ct-Tracker-08 is the best companion for remote positioning and security purposes..

## Product Features

### A. Hardware:

- Built in SiRF star III and tri band GSM 900/1800/1900 ( default tri-bands )
- Build-in GSM, GPS Antenna and speaker
- GPRS class 12 ; 20 channels tracking
- Build-in G-sensor can help save battery power
- Voice communication ; Emergency calls (SOS)
- Superior sensitivity: -159 dBm tracking
- Built-in rechargeable 820 mA/h Li-Ion battery
- Tracking by time interval
- Long stand-by hours, up to 75 hours\*
- Geo-fencing control ( SMS )
- Low power alarm
- Power management when GPS signal not available
- Mini USB port for charging
- Quick dial out 4 preset numbers
- Dimension: 88.5 x 40 x 19.95 mm

\* Note: the number may vary, depending on local operator's service.

**B. Software:**

- Support XMPP (Google Earth) & TCP/IP
- Simple digital data logger, the interval data log by time or distance, and with 5 optional data sentence.
- Can set Device ID
- Store data in mini SD card while out of GPRS and resend data to server once GPRS online
- Auto-switch other server while working server broken
- Trace data interval changeable
- Speed alarm
- Low battery alarm
- SOS message to pre-set people
- pre-set quick button changeable
- Through USB, network, SMS setup program
- Can be customized modification the protocol to meet customer's current call center.

**Tracker Outlook**

## Specifications

### ■ Technical Performance

Item	DESCRIPTION	Specification
<b>Chipset</b>	GSW3	SiRFStar III technology
<b>General</b>	Frequency	L1,1575.42 MHz
	C/A code	1.023 MHz chip rate
	Channels	20
<b>Datum</b>	Default	WGS-84
<b>Accuracy</b>	Position	10 meters, 2-D RMS
		5 meters 2-D RMS,WAAS corrected
	Velocity	0.1 meters/second
	Time	1 microsecond synchronized to GPS time
<b>Time to First Fix (TTFF)</b>	Reacquisition	0.1 sec., average
<b>Open Sky &amp; Stationary Requirements</b>	Hot start	1 sec., average typical TTFF
	Warm start	35 sec., average typical TTFF
	Cold start	42sec., average typical TTFF
<b>Dynamic Conditions</b>	Altitude	1800 meters (60000 feet) max.
	Velocity	515 meters/second (1000 knots) max.
	Acceleration	4g, max.

### ■ GSM / GPRS Technical Performance

Item	DESCRIPTION	Specification
<b>Air Interface</b>	GSM Tri-Band	900/1800/1900 MHz
	Class 4	2W @900 MHz
	Class 1	1W @1800/1900 MHz
<b>Data Interface</b>		
<b>GPRS packet Data features</b>	GPRS Multislot	Class 12
	Coding Scheme	CS1~CS4

### ■ Software Specifications

<b>Operating system</b>	NuCleus
<b>Communication Network</b>	GSM / GPRS 900/1800/1900

### ■ Physical Specifications

Item	DESCRIPTION	Specification
Dimension	Length	88.5 mm
	Width	40 mm
	Height	19.95 mm
Weight	With Rechargeable battery	72 g
	Without battery	57 g

### ■ Environmental Specifications

Item	DESCRIPTION	Specification
Temperature	Operating range	-10 °C to 50 °C
	Storage range	-20 °C to 60 °C
Humidity	Up to 95% non-condensing	

### ■ Interface Specifications

Item	DESCRIPTION	Specification
Power key	Power on	Press 3 second and ring tone
	Power off	Press 3 second and music
Key Pads	1 +OK	Dial Pre-Set 1st Number
	2 +OK	Dial Pre-Set 2nd Number
	3 +OK	Dial Pre-Set 3rd Number
	4 +OK	Dial Pre-Set 4th Number
SOS	SOS and +/sos key	Press two keys at the same time
Power recharge	Mini-USB connector	USB 1.1
External antenna	MMCX	
Storage	SD Card Slot	Micro-SD (only for Data-log)
Microphone	Build-in	
Speaker	Build-in	Mono
Ear-phone	Ear-phone connector	φ 2.5mm
Volume control	increasing volume	+ /SOS key
	decreasing volume	– key
Antenna	GSM, GPS	Build-In

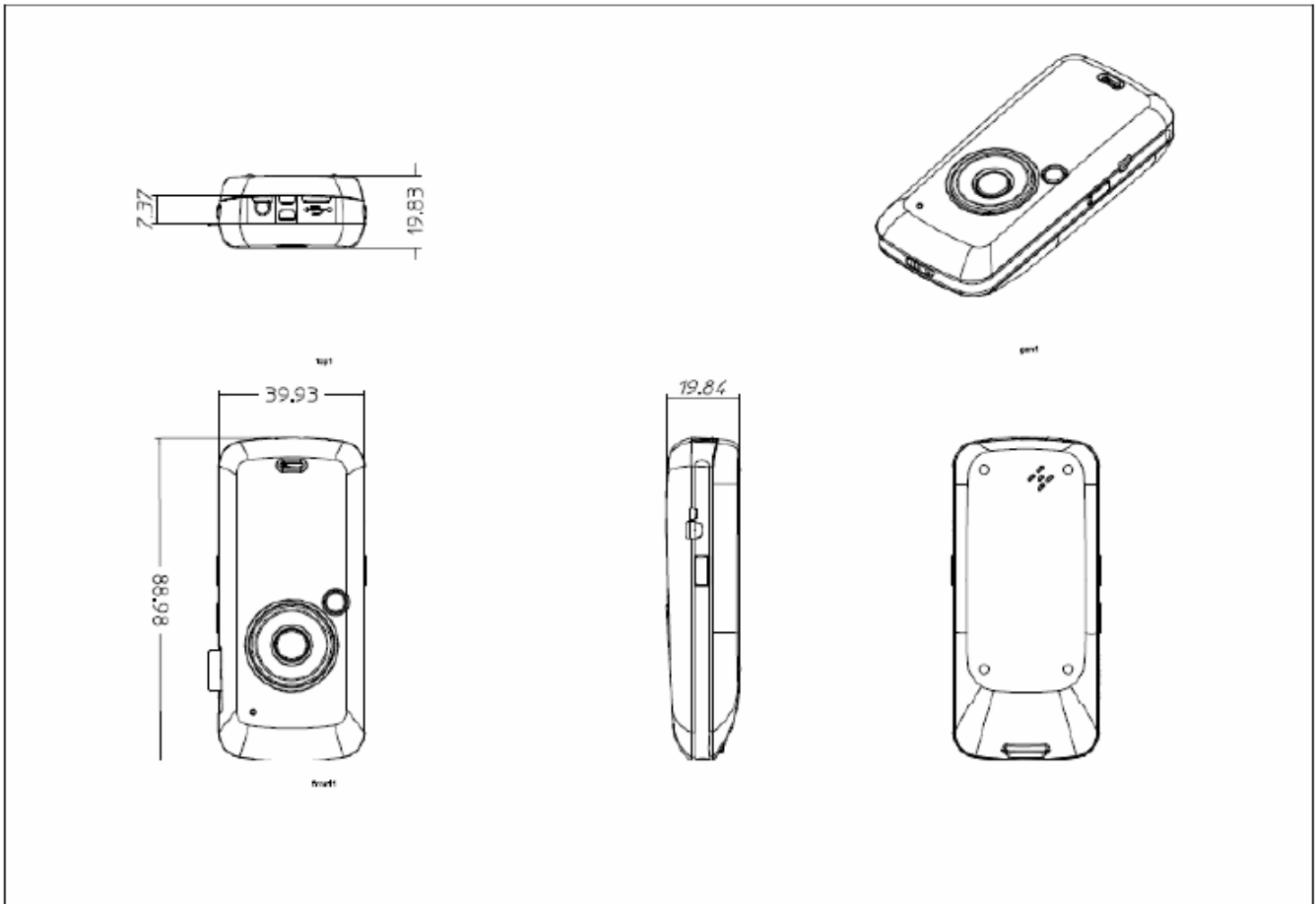
**■ LED lights Definitions**

Indication	Conditions	LED display
<b>Service</b>	limit service (no sim pin)	Red
	no service (no signal)	Red
	Request for input sim card PIN-code	Red->Green->Blue->Red->Green->...
<b>Mode</b>	GSM + GPS Not Fixed	Blue blink
	GSM + GPS Fixed	Cyan (Blue + Green) blinking
	GPRS + GPS Not Fixed	Yellow (Red + Green) blinking
	GPRS + GPS Fixed	Green blinking
	Tracking + GPS Not Fixed	Yellow (Red + Green) <b>fast</b> blinking
	Tracking + GPS Fixed	Green <b>fast</b> blinking
<b>Battery</b>	Low battery	Red->Green->Red->Green....
	Charging	Red blinking
	Fully charged	Green

**■ Electrical Specifications**

Indication	Conditions	LED display
<b>Supply voltage</b>	From Battery	4.2V
	From Power Adaptor	5.0V
<b>Power consumption</b>	Operation mode (GSM)	130mA ~270mA
	Standby mode (Trace On)	70±5mA
	Power saving mode (Trace Off)	5mA
<b>Battery</b>	Battery Cell	Li-ion (820mA)
	Dimension (L x W x H)	43 mm x 31.7 mm x 6.9 mm
	Charging time	3 hr.
	Output voltage	4.2v

**Outline Dimension**



**Accessories**

Item	Quantity
Main unit	1
Battery	1
CD-ROM (Software + User manual + SPEC + Quick Guide )	1
Ct-Tracker Quick Guide	1
Power Adapter	1
Mini USB Cable	1

**Power Adapter**

**Mini USB Cable**

**Battery**

**CD-ROM**

**Quick Guide**

**Anti-Slip Pad**
