



CareTracker – TC100

Powerful GPS Locator
Compact Size



Water Resistant



Super Sensitive with High Accuracy



Quad Band GSM & GPRS



Low Power Consumption



RoHS Compliant



Embedded & full featured @Track Protocol



AGPS Ready Solution

CareTracker TC100 is a powerful GPS Tracker designed for vehicle, pet, person or general asset tracking. With its superior receiving sensitivity, fast TTFF (Time To First Fix) combined with Quad-band GSM frequencies 850/900/1800/1900 its location can be monitored or periodically reported to a back end GPS Tracking Server or other device. Based on the embedded @Track protocol, the CareTracker TC100 can communicate with a backend server through the GPRS/GSM network, or SMS when reporting Emergency Alerts. Geo-fence boundary crossings, Low Battery and scheduled GPS positioning along with several other advanced reporting features. System integrators can easily setup their custom tracking platforms to communicate with the device based on the @Track protocol.

FEATURES:

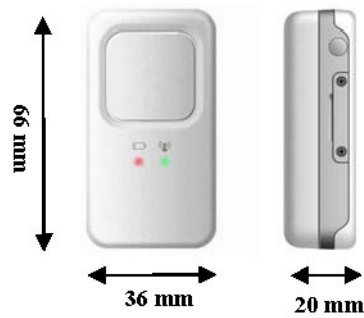
- Water Resistant
- Built in SiRF Star III chipset with -158dBm tracking sensitivity and -142 dBm autonomous sensitivity. Fast TTFF & high accuracy.
- Low power consumption with very long standby time
- A-GPS Ready Solution
- Quad band GSM/GPRS frequency
- Embedded full-featured @Track protocol
- Certificated with PTCRB and FCC



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GSM Specifications:

Frequency:	Quad- Band 850/900/1900MHz Compliant to GSM phase 2/2+ - Class 4 (2W @ 850/900MHz) - Class 1 (1W @ 1800/1900MHz)
GPRS:	GPRS multi-slot class 10 GPRS mobile station class B
RMS Phase Error:	<= 5 Deg
Max Output RF power	33.0dBm+/-2dBm
Dynamic Input Range	-15 ~ -102 dBm
Receiving Sensitivity	Class II RBER<=2% (-102dBm)
Stability Of Frequency	> 2.5ppm
Max Frequency Error	+/-0.1ppm

GPS Specifications:

GPS Chipset	SIRF Star III GPS Receiver Sensitive Fast & Accurate
Sensitivity:	Autonomous Acquisition -142 dBm Hot start -155 dBm Tracking -156 dBm
Channels	20 Channel all-in-view tracking
TTFF (Open Sky)	Cold start 44 sec average Warm start < 38 sec Hot Start < 2 sec

User Interfaces:

TC100 USB Connector	Include charge & UART
Power Button	For power on & off. Can be disabled using the air interface protocol.
Function Button	For SOS alarm or quick setting of Geo-Fence

General Specifications:

Dimensions	66mm 36mm 20mm
Weight	60g
Battery	Li-Polymer 1300mAh, 3.7V
Standby Time	No reporting: 180 to 220 Hours 5 Min. reporting: 70 to 90 Hours 10 Min. reporting: 100 to 120 Hours
Charge Voltage	5V DC
Water Resistance	Follows IPX6 Standard
Certification	PTCRB and FCC

Air 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. One of them can be quick set by function key.
Low Battery Alarm	Alarm when battery is low.
Power On Report	Report when the device is powered on.
Power Off Report	Report when device is turned off.
SOS/ Emergency Alarm	SOS alarm when function key is pressed.

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