



Global Cellular Tracking System

High Performance GPS Tracking

GSM Series

DESCRIPTION

The RTS GSM Series is a high performance long range tracking system using global cellular radio technology to communicate the position of people vehicles, and other remote assets. Remote transmitter and base receiver units support quad band communication with frequencies of 850 / 900 / 1800 / 1900 MHz. The technology is most suitable for tracking units located where global cellular wireless service, specifically General Packet Radio Service (GPRS) and Global System for Mobile Communications (GSM) is available.

Service (SMS), and, in turn communicate with a Command and Control System (CCS). The CCS integrates the tracking data with data from Google Earth and Google Maps to display real-time tracking unit location and status data via the vMonitor software.

The GSM series can simultaneously track an unlimited number of remote units, each transmitting ID and alarm data, GPS position and satellite count, heading, and speed.

Remote tracking units, equipped with GPS receivers, report their position to a GSM base unit via GPRS or Short Message



Personnel Tracking Unit



RTS Advanced Real Time GPS Tracking vMonitor

User: Gary View: Store/ S109
 Get to Site, Region or Address
 Store S109

Trackers for Site: S109A

Tracker	Last Report	Status	GPS Status	Battery
S109A	Aug 09 14:38:55	Moving	No Fix	OK (84%)

Trip History for S109A

Start Time	Stop Time	Trigger	Duration	Mgs/Fixes	Distance (km)
Aug 09 14:38:55	Aug 09 14:38:55	Movement	00:00:00 (A)	1/0	n/a
Aug 09 14:35:03	Aug 09 14:38:51	Movement	00:03:48	3/0	n/a
Aug 09 14:31:41	Aug 09 14:34:59	Movement	00:03:18	3/2	0.0
Aug 09 14:28:40	Aug 09 14:31:07	Movement GeoEnter	00:02:57	3/3	0.7
Aug 09 14:21:35	Aug 09 14:22:29	Movement	00:00:54	3/3	0.0
Aug 09 14:11:05	Aug 09 14:11:05	Movement	00:00:00	1/1	n/a
Aug 09 14:10:58	Aug 09 14:11:02	Movement	00:00:04	2/1	n/a

vMonitor--User Interface for Real Time Tracking and Configuration

SPECIFICATIONS

GENERAL RADIO SPECIFICATIONS

Frequency	850/900/1800/1900 MHz Compliant to GSM phase 2/2+
Output Power	Class 4 (2W @ 850/900 MHz) Class 4 (1W @ 1800/1900 MHz)
Transmission Media	Global System for Mobile Communications (GSM)
Reporting	General Packet Radio Service (GPRS) Short Messaging Service (SMS)

REMOTE FIELD TRACKING UNITS

GPS Data	Unit ID, Latitude, Longitude, Heading, Speed, Active Satellite Count, Unit Status
GPS Receiver	
# channels	20
Circular error probability	15 meters
Standard update rate	20 second (adjustable)

Personnel Tracking Unit

Input power	Lithium polymer battery
Usage time	100 hours typical (@10 min. reporting interval)
Dimensions	68 mm x 40 mm x 21 mm
Weight	2.3 ounces (65 g)
Operating temperature	- 20° C - +55° C

FEATURES:

- Geo-Fence Exit & Entry Alerts
- Text & Email Notification
- Trip History View
- Live View
- Panic Alert
- Data Download

The screenshot displays the vMonitor software interface. On the left is a navigation control panel. The main area is divided into three sections:

- Dashboard for Tracker GSM001:**

Device Status	OK
Last Message	May 25 10:00:24
Battery Status	OK (70%)
Motion Status	stop
GPS Update Rate (sec)	0
Last GPS Report	May 25 08:18:02
GPS Status	OK (hdop=1)
Speed	0
Heading	SW
Lat,Long	39.096181,-104.866071
- Geo Fences for GSM001:**

Geo Fence	State	Time
Man	Outside	May 25 08:13:34
Briargate	Outside	May 24 13:06:20
Starbucks/Mon	Inside	May 25 08:16:26
- Trip History for Device GSM001:**

Start Time	Stop Time	Duration	Distance (km)
May 22 17:10:42	May 22 17:19:56	00:09:14	5.4
May 22 18:43:49	May 22 14:05:34	00:21:45	19.2
May 22 11:37:18	May 22 11:52:35	00:14:47	15.9
May 22 11:06:28	May 22 11:15:36	00:09:08	5.7
May 22 11:02:49	May 22 11:06:12	00:03:23	0.5
May 22 10:53:12	May 22 11:02:34	00:09:22	5.1
May 22 06:52:57	May 22 07:00:19	00:07:42	5.5

ORDERING INFORMATION

Product	Part #	Description	Notes
Remote Field Tracking Units	GSM-PTU	Personnel Tracking Unit	
vMonitor Software	RTS-VMON	Geo-spatial graphing and display software	