



# Global SATCOM Tracking System

## High Performance GPS Tracking

## SATCOM Series

### DESCRIPTION

The RTS SATCOM Series is a high performance tracking system using Iridium satellites to communicate the position of people, vehicles and other remote assets. The technology is most suitable for tracking units located in remote area where global cellular wireless service is not available.

Remote tracking units, equipped with GPS receivers, report their position to the RTS Command and Control System (CCS). The CCS integrates the tracking data with the RTS web-based geo-spatial display system, vMonitor.

The SATCOM series can simultaneously track 1000s of assets, each transmitting ID, GPS position, heading, and speed.

The system may be integrated with smart phones, to send and receive email and text messages, local RFID, and other sensors via Bluetooth to provide a comprehensive picture of an organization's people and assets.



**Advanced Real Time GPS Tracking**

**Dashboard for Tracker GSM001**

Device Status	OK
Last Message	May 25 10:00:24
Battery Status	OK (70%)
Motor Status	stop
GPS Update Rate (sec)	0
Last GPS Report	May 25 08:38:02
GPS Status	OK (hdop=1)
Speed	0
Heading	SW
Lat/Long	39.89183, -104.86071

**Geo Fences for GSM001**

Geo Fence	State	Time
Starb	Outside	May 25 08:35:34
Evargas	Outside	May 24 13:00:28
Starbucks	Inside	May 25 08:35:26

**Trip History for Device GSM001**

Start Time	Stop Time	Duration	Distance (km)
May 22 17:10:42	May 22 17:39:56	00:09:14	5.4
May 22 13:43:49	May 22 14:05:34	00:21:45	19.2
May 22 11:37:48	May 22 11:52:35	00:14:47	15.9
May 22 11:08:28	May 22 11:15:58	00:09:08	5.7
May 22 11:02:48	May 22 11:06:12	00:03:23	8.5
May 22 10:53:12	May 22 11:02:34	00:09:22	5.1
May 22 08:22:27	May 22 07:00:18	01:07:41	5.3

## SPECIFICATIONS

### Tracking

4096 stored breadcrumbs

### Usage

Stand-by life: 60 days

On life: 5-7 days

Maximum Update Rate: 5 minutes

### Iridium Transceiver

Frequency: 1616 – 1626 MHz

RF Power: 1.6W (Max)

### Mechanical

Dimensions: 4.74" x 2.64" x 1.27"

Weight: 186 grams

### Environmental

Waterproof: 1 meter (IP67 compliant)

Operating Temperature: -20°C (-4°F) to +55°C (131°F)

Stowage temperature: -30°C (-22°F) to +70°C (158°F)

### Electrical

Battery: 2000mAh Lithium Polymer

### GPS Receiver Acquisition Time (maximums)

Hot Start: (Open Sky): 2s

Hot Start: (Indoor): 15s

Cold Start: 35s (new almanac data not required)

Cold Start: 15m (new almanac data required)

### Certifications

UL 1642 Certified

UN 38.3 Certified

## ORDERING INFORMATION

Product	Part #	Description	Notes
Remote Field Tracking Units	GSM-PTU	Personnel Tracking Unit	
vGateway Server	RTS-VGW	Middleware hosted on Dedicated Linux Server with full database.	(1)
vMonitor Software	RTS-VMON	Geo-spatial graphing and display software	

#### NOTES:

(1) Can be implemented on virtual server through VMWare. Contact factory for details.