

# G3SC™ GPS/GSM Tracker

Low Cost GPS Tracking Unit with Innovative Technology



The G3SC GPS/GSM tracking unit offer innovative technology with flexible programming rules to make it first choice for fleet.

## HIGHEST ROI WITH INNOVATIVE TECHNOLOGY

G3SC is designed for service providers, integrators, and enterprise customers to enhance mobile resources and improve their dispatch system; the G3SC is a dependable dual-band GSM/GPRS tracking device, delivering the key features fulfilling the most demanding applications: fleet management, insurance telematics, dispatch, vehicle location and recovery, and more.

## OVER THE AIR

The G3SC is powered by over-the-air device management and maintenance system, (Programming, Updates, and Logistics System). FOTA (Firmware update over the air), GSM Jamming detection and 28 hardware based geo-fences makes this the perfect choice for superior safety and security of your vehicle.

## Configurable I/O

With Configurable Input and Outputs make it easy for fleet managers to combine different input rules and generate different kind of output.

## Profile Mangement

Multiple Profiles available which can be activated based on different conditions. These profiles can be configured completely different way for each trigger.

## Features of G3SC

- ❖ Dual Band GSM Modem
- ❖ FOTA (Firmware Update OTA)
- ❖ Flexible Programming Rules
- ❖ HDOP/VDOP for Precise Location
- ❖ Driving Behavior
- ❖ Multiple Data Upload Modes
- ❖ Intelligent Power Management
- ❖ 1Wire dedicated Input
- ❖ Multiple Inputs & Outputs
- ❖ Configurable Inputs & Outputs
- ❖ Conditional Based Profiles
- ❖ Internal Backup Battery
- ❖ 28 Day, Time & Speed based Geo-Fences
- ❖ 128 Way points for delivery management



## Specification of G3SC

### General

Communication Modes	GPRS/EDGE and TCP/UDP/SMS
Location Technology	56 Channels GPS
Operating Voltage	12 and 24 volt vehicle systems

### GPS

Location Technology	56 Channel Ublox 7 Chip GPS & QZSS L1 C/A, GLONASS L1OF, SBAS: WAAS, EGNOS, MSAS
Accuracy	GPS: 2.5m Glonass: 4.0m CEP
Tracking Sensitivity	-162dBm
Acquisition	Cold Start: 30 Sec Warm Start: 30 Sec Hot Start: 1 Sec
Navigation Update:	10Hz
Antenna	Patch internal
Assist GPS	Supported

### Cellular

Modem	Dual Band
Data Support	SMS, TCP, UDP
GSM/GPRS Dual Band	900/1800 MHz
GSM/GPRS Output Power	Class 4 (2W) for 900 bands Class 1 (1W) for 1800 bands
GSM/GPRS Fallback	GPRS Class 12
SIM Card	1.8/3.3 V

### Input/Outputs

Digital Inputs	2 Digital inputs
Ignition Sense	One dedicated wire for Ignition
Programmable Input	One configurable input to negative Trigger digital input or analog input
Digital Output	Two digital outputs, open drain, 300mA drive current max
Latched Digital O/P	One digital output with internal latch Circuit, open drain, 150mA drive max
1Wire	One 1 Wire Input for Driver ID & Temp.
Status LEDs	GPS, Cellular, Power

### On Board

CPU	ARM Cortex M3
Flash Memory	2000 records
2D Accelerometer	On Board

### About Gosafe

Gosafe is a dynamic leader in **GPS Fleet Management** products and services. Gosafe Company Ltd. was incorporated 1999. The Company was created to develop and distribute hardware and software solutions that utilize existing wireless network infrastructures to provide web-based vertical applications to commercial customers and consumers. Gosafe has Strategic Partners in Mobile Hardware Manufacturing, Mapping, Software Development, Wireless Data Services and Product Distribution, Products and Services.

Our competence of adaptability has enabled our products to enjoy substantial success in heterogeneous markets like America, Europe, Middle East, Asia and Africa. We have prosperously sold our products across more than 100 countries of the world. The methodology of our time-tested procedures has endowed us to provide our customers with products of consistent quality and has enabled us to meet the challenging time-lines offered by the customers. By virtue of this, today, we enjoy an outstanding market reputation and a dignified stance among our competitors.

### Electrical

Operating Voltage	8-32V DC operational for 12V & 24V Vehicle support per SAE J1455
Power Consumption	3mA 12V (Sleep) 70mA 12V (Power Save) 100mA 12V (Active Tracking)
Backup Battery	LI-PO 150mAh (Optional)(G3SCB) Battery Recharging Range is 0 to +45°C

### Physical

Dimensions	80(L) x 52(W) x 26(H)mm
Weight	80g (Without Battery)

### Environmental

Operating Temperature	-40 ~ +80°C (without Backup Battery) -10 ~ +50°C (with Backup Battery)
Humidity	95%RH @ 50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B
RoHS	Compliant

### Connectors, SIM Card Access

Connector Type	10 Pin Molex
Mini USB	1 Mini USB (configuration/debug)
Power Switch	Battery ON/Off Switch
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal

### Mounting

Tie Wrap, Velcro or adhesive

### Key Features

- Quad Band GSM/GPRS modem
- Packet data (TCP/IP, UDP or TCP/IP + UDP) & SMS support
- Internal GSM Antenna for better security
- User Profiles for controlling via SMS
- GSM jamming detection
- High Sensitive GPS engine
- Highly Sensitive GPS
- Low power consumption in sleep mode
- Back up battery (Optional)
- Day, Time and speed based geo-fences
- 128 Way points
- Main and backup battery voltage management
- Event management & output configuration
- Combine events and configuration
- Multiple profiles for different conditions
- FOTA (Firmware update over the air)
- OTA device configuration

### Optional

- Backup Battery
- I-Button Dallas key
- Temperature sensor
- Relay