



# G6C™ GPRS/HSPA/LTE Series

Feature Rich GPS Tracking Unit with Innovative Technology



The G6S GPS fleet tracking unit offer innovative technology with felixible programming rules to make it first choice for fleet.

## HIGHEST ROI WITH INNOVATIVE TECHNOLOGY

G6C is designed for service providers, integrators, and enterprise customers to enhance mobile resources and improve their dispatch system; the G6C is a dependable quad-band GSM/GPRS/LTE 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 G6C 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.

## COMMUNICATION

The G6C offers continuous communication via SMS, TCP/IP or UDP between device and your application. Easily work around data packet help to reduce the communication cost.

## Features of G6C

- ❖ 2G, 3G & LTE modem options
- ❖ Global HSPA Version
- ❖ Self-Calibrate 3D Accelerometer
- ❖ FOTA (Firmware Update OTA)
- ❖ Flexible Programming Rules
- ❖ Garmin® FMI Enable
- ❖ 1-Wire® Interface
- ❖ HDOP/VDOP for Precise Location
- ❖ Driving Behavior
- ❖ GSM Jamming Detection
- ❖ Multiple Data Upload Modes
- ❖ Intelligent Power Management
- ❖ Multiple Inputs & Outputs
- ❖ Configurable Inputs & Outputs
- ❖ Conditional Based Profiles
- ❖ Internal Backup Battery
- ❖ 28 Day/Time/Speed based Geo-Fences



## Specification of G6C

### General

Communication Modes	GPRS/EDGE and TCP/UDP/SMS
Location Technology	50 Channels GPS
Operating Voltage	12 and 24 volt vehicle systems

### GPS

Location Technology	uBlox 7 (with SBAS) GPS L1 C/A Code SBAS, WAAS, EGNOS, MSAS
Accuracy	SBAS 2.0m CEP
TTF (Open Sky)	Cold Start: 27s (Average) Warm Start: 27s (Average) Hot Start: 1s (Average)
Update Rate	1 Second
Tracking Sensitivity	-162dBm
Antenna	Patch internal
Assist GPS	Supported

### Cellular

Modem	HL6528 or HL85XX or HL75XX
Data Support	SMS, TCP, UDP
GSM/GPRS	850/900/1800/1900
UMTS WCDMA FDD	800/850/900/1900/2100 (Option)
LTE	B1/B2/B3/B4/B5/B7/B13/B17 (Option)
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (Option)
LTE	5Mbps UL/ 10Mbps DL (Option)
SIM Card	1.8/3.3 V (Micro SIM)

### 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
Analog Input	One dedicated analog input
Digital Output	Two digital outputs, open drain, 300mA drive current max
Serial Port	1 RS232 serial port for external devices
1-Wire Solution	1 wire interface (Driver ID, Temp. Sen)
Status LEDs	GPS, Cellular, Power

### On Board

CPU	ARM Cortex M3
Flash Memory	6000 Buffered Message
3D 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

### Electrical

Operating Voltage	8-32V DC operational for 12V & 24V Vehicle support per SAE J1455
Power Consumption	1mA 12V (Sleep) 12mA 12V (Power Save) 100mA 12V (Active Tracking)
Backup Battery	LI-PO 750mAh Battery Recharging Range is 0 to +45°C

### Physical

Dimensions	94(L) x 47(W) x 20.50(H)mm
Weight	78g (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 (Optional)

### Connectors, SIM Card Access

Connector Type	Captive wire harness 12 wires
Molex Connector	Battery ON/OFF
USB	Configuration & firmware update
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Micro SIM & Embedded SIM Support

### Mounting

Tie Wrap, Velcro or adhesive

### Key Features

- Quad Band GSM/GPRS modem
- Packet data (TCP/IP, UDP & SMS) support
- Internal GSM Antenna for better security
- User Profiles for controlling via SMS
- GSM jamming detection
- High Sensitive GPS engine
- Internal or external antennas option
- GPS and Glonass support
- Low power consumption in sleep mode
- Back up battery option
- 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

- G6C-LTA (LTE CAT-1 AT&T Version)
- G6C-LTV (LTE CAT-1 Verizon Version)
- G6C-3G (HSPA Version)
- Driver ID
- Temperature Sensor
- RFID
- Buzzer
- Starter Disabler