



G3C™ GPRS/HSPA Series

Economical GPS Tracker

G3C Economical series is an entry level GPS Tracking device .

COMPETITIVE PRICE WITH HIGHEST RELIABILITY

The G3C competitive tracking unit from Gosafe offers superior GPS performance, with optional internal 750mAh back-up battery, 3-axis accelerometer for motion sense, and with one input and one output (I/O). The G3C is a complete tracking unit with two version 2G as well as 3G covering all 5 bands of 3G communication. G3C is designed for 12 or 24 volt mobile vehicles with quick and easy installation procedure.

OVER THE AIR

The G3C is powered by over-the-air device management and maintenance system GICUS™ (Programming, Updates, and Logistics System). FOTA (Firmware update over the air), easy configuration and maintenance over the air. Automatic hands free out of the box programming with simple clicks.

COMMUNICATION

The G3C 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.

Profile Management

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

Features of G3C

- 2G and 3G modem options
- HSPA Version support all 5 bands
- Self-Calibrate 3D Accelerometer
- FOTA (Firmware Update OTA)
- Flexible Programming Rules
- HDOP/VDOP for Precise Location
- Driving Behavior
- GSM Jamming Detection
- Multiple Data Upload Modes
- Intelligent Power Management
- Conditional Based Profiles
- Internal Backup Battery
- 28 Day, Time & Speed based Geo-Fences
- 128 Way points for delivery management

Specification of G3C

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	50 Channel Ublox GPS (with SBAS) GPS L1 C/A Code SBAS, WAAS, EGNOS, MSAS
Accuracy	SBAS 2.0m CEP
TTFF (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 HL8548
Data Support	SMS, TCP, UDP
GSM/GPRS	850/900/1800/1900
UMTS WCDMA FDD	800/850/900/1900/2100 (Option)
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (Option)
SIM Card	1.8/3.3 V (Micro SIM)

Input/Outputs

Digital Inputs	1 Digital input
Digital Output	1 digital output, open drain, 300mA drive current max
Status LEDs	GPS, Cellular, Power

On Board

CPU	ARM Cortex M3
Flash Memory	2000 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 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	1mA 12V (Sleep) 12mA 12V (Power Save) 100mA 12V (Active Tracking)
Backup Battery	LI-PO 750mAh (Option) 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 RoHS	SAE J1113; FCC-Part 15B Compliant (Optional)

Connectors, SIM Card Access

Connector Type	Captive wire harness 4 wires
Power Switch	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

- Backup Battery
- Relay