



G6S™ GPRS Fleet Tracker

Feature Rich GPS Tracking Unit with Innovative Technology

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

HIGHEST ROI WITH INNOVATIVE TECHNOLOGY

G6S is designed for service providers, integrators, and enterprise customers to enhance mobile resources and improve their dispatch system; the G6S is a dependable quad-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 G6S 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.

Fleet Management easier with GICUS

Controlling a large quantity of vehicles, their relevant telemetry and operator SIMs can be a challenge GICUS combined with the use of embedded SIMs can greatly reduce the cost of these procedures and provide the security that the devices are constantly monitored for correct functioning and updated with correct configuration and firmware.

Features of G6S

- Quad Band GSM Modem
- 2G/3G Modem Versions
- FOTA (Firmware Update OTA)
- Flexible Programming Rules
- 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 G6S

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 GPS (with SBAS) Telit SL869 Glonass (Optional) GPS L1 C/A Code SBAS, WAAS, EGNOS, MSAS
Accuracy	SBAS 2.0m CEP
Tracking Sensitivity	-162dBm
Antenna	Patch internal (external optional)
Assist GPS	Supported

Cellular

Data Support	SMS, TCP, UDP
GSM/GPRS Quad Band	850/900/1800/1900 MHz
3G Dual Band US	850/1900 MHz (Optional)
3G Dual Band EU	900/2100 MHz (Optional)
GSM/GPRS Output Power	Class 4 (2W) for 850 / 900 bands Class 1 (1W) for 1800 / 1900 bands
GSM/GPRS Fallback	GPRS Class 10
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (Optional)
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
Analog Input	One dedicated 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
Two-way Audio	2 differential outputs; 1 audio input
Serial Port	1 RS232 serial port for external devices
1-Wire Solution	1 wire interface (Driver ID)
Status LEDs	GPS, Cellular, Power

On Board

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
2D Accelerometer	On Board

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 250mAh (Optional) 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 ~ +85°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	16 Pin Molex
Mini USB	1 Mini USB (configuration/debug)
Power Switch	Device Power ON/Off Switch
GPS Antenna	Internal or External SMA
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
- 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
- 1-Wire data for driver management and movement restriction
- Temperature sensor via 1-wire data
- FOTA (Firmware update over the air)
- OTA device configuration

Optional

- External GPS Antenna
- Backup Battery
- Garmin FMI interface
- I-Button Dallas key
- Temperature sensor
- RFID Card reader