# G797 OBDII & J1939 ADVANCED Telemetry Device

Tracking, Telemetry, OBDII & J1939 Diagnostics and Vehicle Information

*Now with Accident Reconstruction Buffer and Automatic or Remote Recall*


The G797 OBDII & J1939 tracking and telemetry unit is a full featured device providing an ideal solution to monitor mileage, driver behaviour, replay of accident parameters as well as providing a wide range of vehicle diagnostic values. This unit together with its comprehensive optional cabling range provides the ideal solution for large fleets, leasing and rental companies as well as insurance PAYD and PHYD systems.

## 6D Accelerometer / Gyroscope

The G797 device is equipped with 6D Accelerometer + Gyroscope for acceleration measurement precision andvehicle orientation. In the event of an accident the device can automatically or on demand report the status of the vehicle 5 secs before the impact and 5 seconds after the impact. Sampling at 500hz of the acceleration in 3 axis plus 3 axis with angular speed enables precise indication of impact and multiple impact vectors.


## Extended PIDs and PNGs for Diagnostics

A full 16 OBDII Parameter IDs (PIDs) or 16 J1939 Parameter Group Numbers (PGN,s) can be polled and decoded to provide such things as VIN Number, DTC Reset Mileage, Odometer Mileage, Malfuction Light Indication on Passenger & Light Commercial Vehicles as well as Heavy Duty Vehicle.

## G797 Features

- OBDII & J1939 Tracking and Telemetry Device
- 2G GSM (3G and LTE Optional)
- 6D Accelerometer (Self Calibrating)
- Gyroscope Incorporated
- Accident Reconstruction Buffer
- Geo-Fence Management
- Driver Behavior Monitoring
- Alert for FNOL (First Notice Of Loss)
- Speeding Alerts
- Built In GPS & GSM Antenna
- Insertable or Imbedded SIM
- OBDII & J1939 Protocols
- GICUS Remote Config & Update
- Extensive Cable Sets for Vehicles
- Bluetooth Option Available
- LTE Version Available (Q2 2017)
- Multi Source Odometer Accumulation
- VIN Number Extraction
- Automatic or Manual Protocol Adaption

# G797 Specification

## General

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

## GPS

| | |
|---|---|
| Location Technology | Ublox 6 (with SBAS)<br>GPS L1 C/A Code<br>SBAS, WAAS, EGNOS, MSAS |
| Accuracy | SBAS 2.0m CEP |
| Tracking Sensitivity | -162dBm |
| Antenna | Patch internal |
| Assist GPS | Supported |

## Cellular

| | |
|---|---|
| Modem | HL 6528 or HL8548 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 | 50Mbps UL/150Mbps DL (Option) |
| SIM Card | 1.8/3.3 V |

## Input/Outputs

| | |
|---|---|
| Inputs | Direct Connection to J1962 |
| Outputs | None (Bluetooth Optional) |
| USB | Configuration Firmware update |
| Ignition Sense | Internal Management |

## On Board

| | |
|---|---|
| CPU | ARM Cortex M3 (32Bit) |
| Flash Memory | 4~64Mbit |
| 6D Accelerometer /Gyroscope | On Board 16G (Optional) |

## On Board Diagnostics

J1939 (CAN 250kbps), J1939 (CAN 500kbps), J1850 PWM, J1850 VPW, ISO 9141-2, ISO 14230-4 (KPW), ISO 15765-4 (CAN), J2411 (SWCAN), KW1281 (J2818), ALDL160 (160 Baud), ALDL8192 (8192 Baud), ISO11898

## About Gosafe

Gosafe is a dynamic leader in GPS Fleet Management products and services. Gosafe Company Ltd. was incorporated in 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 heterogenous markets such as America, Europe, Middle East, Asia and Africa. We have prosperously sold our products across more than 100 countries across the globe. 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 timelines set by 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<br>Vehicle support per SAE J1455 |
| Power Consumption | 3mA 12V (Sleeping mode)<br>70mA 12V (Power Saving mode)<br>100mA 12V (Active Tracking) |
| Backup Battery | LI-PO 250mAh<br>Battery Recharging Range is 0 to +45ºC |

## Physical

| | |
|---|---|
| Dimensions | 52(L) x 57(W) x 28 (H)mm |
| Weight | 80g (Without Battery) |

## Environmental

| | |
|---|---|
| Operating Temperature | -40 ~ +80°C (without Backup Battery)<br>-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) |
| E Mark | |

## Connectors, SIM Card Access

| | |
|---|---|
| Connector Type | J1962 |
| Mini USB | 1 Mini USB (configuration/debug) |
| Power Switch | Battery Power ON/Off Switch |
| GPS Antenna | Internal |
| GSM Antenna | Internal |
| SIM Card | Internal or Embedded SIM Option |

## Mounting

Direct Connect or Extension T-Cable
For Out of Sight installations Cable sets for most Vehicles

## Key Features

- GSM/GPRS/HSPA/LTE modem
- Designed for UBI/PAYD/PHYD
- 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 sleeping 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 (Single or Bulk)

## Optional

- G797 (2G + Bluetooth + 6D)
- G79HB (HSPA +Bluetooth Version + 6D)
- G79LB (LTE Version + Bluetooth Version + 6D)
- 6D Accelerometer/Gyroscope with Accident Reconstruction
- Embedded SIM
- T-Cable
- OBDII to Deutsch Cable
- Power Cable