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 monitoring 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 PHYD and PHYD systems.
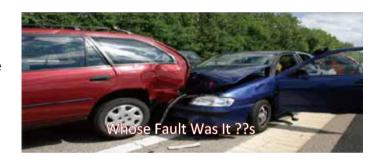
6D Accelerometer / Gyroscope

The G797 device is equiped with 6D Accelerometer + Gyroscope for precision acceleration measurement and vehicle 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.

Whose Fault Was It ??s

Extended PID's and PNG's for Diagnostics.

A full 16 OBDII Parameter IDs (PID,s) 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 Commer-cialVehicles as well as Heavy Goods Vehicle

Features of G797

- OBDII & J1939 Tracking and Telemetry Device
- Insertable or Imbedded SIM
- 2G GSM (3G and LTE Optional)
- OBDII & J1939 Protocols
- 6D Accelerometer (Self Calibrating)
- GICUS Remote Config & Update
- Gyroscope Incorporated
- Extensive Cable Sets for Vehicles
- Accident Reconstruction Buffer
- Bluetooth Option Available
- Geo-Fence Management
- LTE Version Available (Q1 2016)
- Driver Behavior Monitoring
- Multi Source Odometer Accumulation
- Alert for FNOL (First Notice Of Loss)
- VIN Number Extraction
- Speeding Alerts
- Automatic or Manual Protocol Adaption
- Built In GPS & GSM Antenna

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)
	GPS L1 C/A Code
	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

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
	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)
	-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	Device 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 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 (Single or Bulk)

Optional

- G79B (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