

# MG-2G



**OIGO**<sup>®</sup>  
*telematics*

## Highlights

- Supports a diverse set of event reports and alerts.
- GPRS 850/900/1800/1900
- Communication via SMS, UDP, Ack UDP
- Integrated cellular and GPS antenna; with LED status indicators for GPS and network registration
- Up to 32 Geofences
- Extended AT Command set for flexible and easy configuration
- 3000 Report log
- Power saving mode
- Motion Sensor



## Optional Features

- Rechargeable Backup Battery
- External Battery
- External Piezo Buzzer

## PRODUCT DESCRIPTION

**RELIABILITY** - The ultra-thin and durable MG-2G is a high performance cellular tracking system designed to meet the demand for vehicle recovery, fleet management, and more. With an integrated GPS receiver, the MG-2G includes a GPRS modem for wireless data communication. The high performance antennas for both cellular radio and GPS receiver are built into the unit for easy installation.

**SIMPLICITY** - The MG-2G comes with easy to configure application software that can be easily set up without the need for programming skills. Reports can be triggered periodically or in response to events such as motion, exceeding maximum speed, geo-fence violations, battery status, and many more. Notification can be sent for vehicle towing, battery removal, and open door alerts.

**FUNCTIONALITY** - The I/O interface includes a UART, two GPIOs and a Relay Drive for communication with terminals and devices, ignition sensing, ignition control. Optional features include an external battery an optional internal Lithium-Ion back up battery, and an optional buzzer alert system for driver warnings.

## MG-2G Specifications

### CELLULAR MODEM SPECIFICATIONS:

850/900/1800/1900 MHz Quad band GPRS  
Class B, Multi-slot 12  
Auto register to GPRS network  
Integrated high sensitivity antenna

### GPS

Channels: 22  
Tracking Sensitivity: -165 dBm  
Acquisition Sensitivity: -149 dBm  
Location Accuracy: 2.5 CEP

### I/O INTERFACE

7 pin I/O Connector  
UART  
2 General Purpose I/O, 2.8V Logic Level, 15V tolerance, Ignition sense capability  
1 Relay Drive Output, 500 mA, 15V tolerance open drain MOSFET

### ENVIRONMENTAL

Operation Temperature:  
-25°C to 80°C without backup battery  
0°C to +40°C with battery charging  
0°C to +60°C with battery discharging  
Storage Temperature:  
-50°C to 85°C without backup battery  
0°C to 40°C with battery  
Operating Humidity: 10% to 95%  
(non-condensing)  
Storage Humidity: 10% to 95% (non-condensing)

### CONNECTOR

SIM card Access: Internal  
Cellular Antenna: Internal  
GPS Antenna: Internal  
I/O Connector: Male 8 Pin (3mm)

### ELECTRICAL

Operating Voltage: 7VDC to 30VDC  
600mA limit on peak current when charging  
TVS overvoltage protected  
Noise filtering  
Voltage monitoring and low power notification  
Power management modes: Full power, GSM off, Deep sleep

### PHYSICAL

39.3mm x 91mm x 13.8mm  
Weight: 43g without battery; 47g with battery

### CERTIFICATIONS

FCC 47 CFR Part 15 and Part 18  
CE  
Industry Canada  
UL Listing  
PTCRB

### OPTIONAL FEATURES

Backup Battery  
External Piezo Buzzer

## About Oigo Telematics

Oigo Telematics is a leading provider of high performance, small form-factor tracking systems for the vehicle recovery, fleet, trailer, and asset tracking industry. We specialize in partnering with companies by providing custom solutions branded for our customers' needs.



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