



# Vehicle Recovery and Fleet Management

Maximize efficiency. Minimize risks. Manage assets.



## AR-2GM AR-Series

The AR-2GM Tracker is a real-time vehicle tracking system designed for vehicle recovery, fleet management, and more.

### IT'S RELIABLE

The ultra-thin yet extremely durable AR-2GM is a high-performance cellular tracking device designed for vehicle tracking, lot management, theft recovery, or other fleet applications. With an integrated GPS receiver, the AR-2GM includes a GPRS modem for wireless data communication and global coverage. The built in high performance antennas for both cellular radio and GPS receivers make installation easy.

### IT'S SIMPLE

No programming skills required: The AR-2GM comes with easy-to-configure application software. Reports can be triggered periodically or in response to events such as motion, speeding, geo-fence violations, heading changes, towing, battery removal, and more.

### IT'S FUNCTIONAL

The AR-2GM's interfaces include a serial port for communication with terminals and devices, power, ground, four GPIO pins that can be used for dedicated ignition, relay, and I/O.

Optional features include an internal Lithium-Ion back up battery (BuB) that allows for continuous operation and recovery.

### HIGHLIGHTS

- ▣ GSM/GPRS 850/900/1800/1900
- ▣ Integrated cellular and GPS antenna
- ▣ LED status indicators for GPS and network registration
- ▣ Communication via SMS, UDP, Ack UDP
- ▣ Over the air configuration and Firmware update
- ▣ Extended AT Command set for flexible and easy configuration
- ▣ Up to 16 Polygon Geo-fences
- ▣ 3000 Report Log

### OPTIONAL FEATURES

- ▣ Rechargeable Back up Battery (BuB)



## Specifications

### CELLULAR

- ▣ GSM/GPRS
- ▣ 850/900/1800/1900 MHz
- ▣ Integrated high sensitivity antenna
- ▣ Auto register to packet network

### GPS

- ▣ Channels: 56
- ▣ Tracking Sensitivity: -162 dBm
- ▣ Acquisition Sensitivity: -148 dBm
- ▣ Location Accuracy: 2.5 CEP

### INTERFACE CONNECTOR

- ▣ I/O Connector: 8 Pin Male 3mm
  - ▣ PWR, GND
  - ▣ UART (RX/TX)
  - ▣ 4 - GPIOs or dedicated I/Os, for Ignition, Relay, UART
- Max voltage tolerance: 28V

### PHYSICAL

- ▣ Dimensions: 91mm x 39.4mm x 15.7mm
- ▣ Internal Cellular and GPS Antennas

### ELECTRIC

- ▣ Internal Back up Battery: 80mAh
- ▣ Operating Voltage: 7V – 28V<sup>▣</sup>
- ▣ Over voltage protected by TVS 36V
- ▣ Over current protected with resettable fuse
- ▣ Power Consumption (typical):
  - Deep Sleep – 12mW
  - Listening Only – 200mW
  - GPS Acquisition – 231mW
  - GPS / Reporting – 498mW

### ENVIRONMENTAL

- ▣ Operation Temperature: -30°C to +75°C w/o BBU<sup>▣</sup>
- ▣ Operation Temperature: -20°C to +60°C w/BBU
- ▣ Storage Temperature: -40°C to +85°C
- ▣ Operation Humidity: 20% to 90% (non-condensing)
- ▣ Storage Humidity: 10% to 95% RH (non-condensing)

### APPROVALS

- ▣ FCC 47 CFR Part 15, Part 22, and Part 24
- ▣ CE
- ▣ RoHS2 and WEEE
- ▣ PTCRB and IC

## 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, offering a complete portfolio of high-performance tracking systems, cloud software services, and network connectivity. Our devices are designed from the ground up, making them unique in the industry and extremely cost effective.

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