

# alwaysFind<sup>TM</sup>

## advanced GPS tracking system

alwaysFind is a **vehicle tracking device** designed using a combination of **GPS, GSM, and GPRS** technologies. The parameters of alwaysFind can be updated via SMS, GPRS, or a direct USB connection. Data output of alwaysFind is controlled by sending a command code to it via SMS or GPRS. For authorization purposes, each device has a remote controller for the user to set the unit to Arm or Disarm mode. An **SOS panic button** is also included for emergency purposes.



Easily fitted, vehicle owners receive standard **NMEA0183 GPS output** transmitted from the alwaysFind unit via the GSM network indicating the location of the vehicle. alwaysFind can be integrated via software into an **online monitoring system**, to which customers could log on and track their alwaysFind unit's location in real-time using **digital maps** and **satellite imaging**.

## Features

- **SMS & GPRS transmission**
- **Supports TCP/IP**
- **Support 16-channel, "all-in-view" GPS tracking**
- **User password management**
- **Immobilization**
- **Logging**
  - Trip Start/End
  - General Location
  - Unit Idle Time
- **Reporting**
  - Real-time tracking via SMS or GPRS
  - Last and current location
  - History (logged data report at the end of the day or by request via email)
- **Alarms**
  - Start & End Of Trip
  - Speed Limit Violation
  - Panic Button
  - Vehicle Being Towed
  - Geofence Violation
  - Low Battery
  - Loss Of External Power
- **Unit Initialization (USB/SMS/GPRS)**
- **Remote Control (with 3 buttons for Arm/Disarm, Setting, Car Search, and SOS)**
- **Memory capacity for up to 10,000 locations to be saved**

**Gilsson Technologies<sup>TM</sup>**

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### Technical Specifications

#### Physical Characteristics

Unit Size: 93×90×36mm

Weight: 300g

Aluminum housing

Interface: 2 I/Os, 1 mini-USB port, 4 LED lights for GPS, GSM, and USB status

#### Case Environmental Characteristics

Operating Temperature: -35°C to +75°C (board temperature)

Storage Temperature: -45°C to +90°C

#### Electrical Characteristics

Input Voltage: +12V DC

Power Consumption:

Standby — 20mA @ 12V/30mA @ 12V (peak)

Transmitting — 100mA @ 12V, 130mA @ 12V (peak)

Backup Battery: Rechargeable 1000mA Li-Ion

Backup Battery Life: approx. 6 hours with GPS and Communication online

Memory Backup

1MB Flash Memory (1000000 \* 8 Bits data)

Up to 10,000 individual location can be saved

Two Negative Inputs (200mA max per output)

Two Inputs (active low/high to activate input)

Power input protected against wrong connection and voltage > 24V

All inputs are protected against high voltage

#### GSM Specifications

GSM Module: SIMCOM

Communications Frequencies: 900/1800 or 850/1800/1900

#### GPS Specifications

GPS Module: Nemerix low power consumption 27mA. 16 channel accuracy

Frequency: L1, 1575.42 MHz

GPS gain: -152dbm

Protocol: NMEA0183

Position: 25m CEP without SA

Hot Start Time: <10s, average

Warm Start Time: <38s, average

Cold Start Time: <45s, average

#### Remote Controller

Remote controller receiving frequency: 434MHz

#### Transmission Methods

USB (Baud Rate 4800bps), SMS, GPRS

For a complete list of compatible GPS receivers, please visit our website:  
<http://www.gilsson.com/compatibility.htm>

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