

## Geotab® GO7® — Expandable Simple-to-Install Telematics Device

For the most up-to-date version, please visit: [goo.gl/5zcEWm](http://goo.gl/5zcEWm)



### GO7 Device

GO7 is a small yet extremely powerful telematics measurement tool. Similar to the GO6® before it, the GO7 offers state-of-the-art GPS technology, g-force monitoring, GEOTAB IOX® expandability, and engine and battery health assessments.

### Vehicle Tracking

Using Geotab's patented tracking algorithm, the GO7 accurately recreates a vehicle's trips and analyzes its incidents. Moreover, the GO7 offers in-vehicle alerts to instantly notify drivers of infractions and — with hardware Add-Ons — the ability to provide live coaching to drivers relating to their on-road performance. The GO7 is simple to install and does not require a dash-mounted antenna or any splicing of wires.

### Top Features

- Simple-to-install
- External device expandability via IOX Technology
- Intelligent in-vehicle driver coaching
- Small form factor device
- Breakthrough accident detection & notification

### Security

Geotab platform security is designed for end-to-end protection of your data.

Key implementations include:

- GO device and network interfaces use authentication, encryption, and message integrity verification.
- GO devices are individualized. Each device uses a unique ID and non-static security key, making it difficult to fake a device's identity.
- Over-the-air updates use digitally-signed firmware to verify that updates come from a trusted source.
- Geotab uses independent third-party experts to validate the platform from end to end.
- FIPS 140-2 validated by NIST (certificate #3371)

- Accurate engine diagnostics, DTC, and proprietary engine data
- Near-real-time vehicle data
- Fast GPS acquisition time using Almanac OTA support
- Built-in auto-calibrating accelerometer
- End-to-end cybersecurity

# Technical Specifications and Features

## Interfaces

### Engine Management

Legacy OBD (SAE J1850 PWM/VPW, ISO 9141-2, and ISO 14230 (KWP2000))  
Single Wire CAN (GM 33.3 kbps, Fiat/Dodge 50 kbps)  
ISO 15765 CAN (including WWH-OBD, GMLAN, VW TP2.0) @ 125/250/500 kbps  
Medium Speed CAN @ 125/250/500 kbps  
2- or 3-wire install support (for older vehicles/asset tracking)

### Input/Output

Buzzer  
LEDs — Ignition, GPS, Cellular  
IOX (more details below)  
Internal GPS/Cellular antennas

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## Cellular

**G07 3G** (availability varying on certification - full list of supported countries [here](#))

### Americas

HSPA/UMTS: Bands II / V  
GSM/GPRS: 850/1900 MHz

### Europe/Asia

HSPA/UMTS: Bands I / VIII  
GSM/GPRS: 900/1800 MHz

### Global (available in select regions)

HSPA/UMTS: Bands I / II / IV / V / VI / VIII  
GSM/GPRS: 850/900/1800/1900 MHz

### G07 2G Discontinued

GSM/GPRS: 850/900/1800/1900 MHz

### G07 CDMA Discontinued

CDMA 1XRTT: 800/1900 MHz

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## GPS Receiver

50-channel engine  
Under 1 second Time-To-First Fix for hot and aided starts  
Hybrid GPS/SBAS engine (WAAS, EGNOS, MSAS)  
3GPP compliant  
**A-GPS:** Differential Almanac  
**Accuracy:** ~2.5 m

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## I/O Expandability Support (IOX)

### Currently supports a combination of up to 5 of the following:

Driver ID  
Hours of Service (HOS)  
Garmin  
Iridium Satellite  
AUX — 4 per IOX (Digital or Analog)  
Serial Port and Additional CAN for third-party device integration  
Driver Feedback via external Buzzer and GOTALK  
Substance Spreader  
Relay control  
Alert

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## Accelerometer

3-axis auto-calibrating accelerometer. Full scale ( $\pm 2g$ ,  $\pm 4g$ ,  $\pm 8g$  &  $\pm 16g$ ), capable of measuring accelerations with an output data rate of 100 Hz to 1250 Hz.


Environmental and EMC	<p><b>Operating Temperature</b> -40 to +85 °C</p> <p><b>SAE J1455</b> Thermal Shock (Section 4.1.3.2) Mechanical Vibration (Section 4.10) Operational Shock Load Dump, Inductive Switching, Burst Transients, Starter Motor Engagement (Section 4.13.2.2.1) Coupled Transients (Section 4.13.2.2.2) Electrostatic Discharge Handling, operational and non-operational (Section 4.13.2.2.3) Radiated Immunity Radiated and Conducted Emissions, Performance class 1</p>
Mechanical	<p><b>Weight:</b> 70 g (0.15 lb) <b>Dimensions:</b> 75 mm L × 50 mm W × 23 mm H <b>Housing:</b> Flame retardant black ABS</p>
Electrical	<p><b>Voltage</b> 12 V and 24 V systems supported</p> <p><b>Current</b> (at 12 V) Operating Mode: 60–300 mA Operating mode + IOX: Up to 2 A Sleep mode: 2.5 mA</p> <p>Resettable overcurrent protection to IOX</p>
Compliance	<p><b>Standards:</b> FCC, IC, PTCRB, CE, E-mark, WEEE, REACH, RoHS, RCM <b>Carriers:</b> Verizon, Telus, Telefónica, Rogers, AT&amp;T, Bell, TMO, Sprint, Telenor</p>
Over-the-Air (OTA) Support	<p><b>Firmware Updates:</b> For maintenance, new features, and custom applications <b>Parameters:</b> For turning additional features on/off <b>Almanac/Ephemeris Data:</b> For quicker GPS latch</p>
In-cab Buzzer	<p><b>Decibel Output:</b> &gt;80 dBA at 10 cm <b>Driver Feedback:</b> Harsh braking, harsh acceleration, harsh corners, over-revving, excessive idling and speeding, engine-based seatbelt violations (when available), and custom rules (with Driver Feedback enabled) <b>Test Mode:</b> Diagnostic beeps for validating GPS and wireless connection</p>
Voltage Recording	<p>Curve-based voltage logging to detect weak batteries, failing alternators, and failing starters.</p>
32-Mb Non-volatile Flash Memory	<p><b>Main Data Memory:</b> Up to 80,000 logs in offline mode (out of coverage) <b>Accident Data Memory:</b> Buffer records over 100 minutes of second-by-second data (6,000 logs). Last 72 records (1.2 minutes) are sent instantly on accelerometer-triggered accident-level events</p>
Recording Parameters	<p>Patented curve-based GPS/voltage/accelerometer/engine data logging algorithm for fewer, more accurate data points.</p>
Intelligent Ignition	<p>Non-engine-based ignition detect on voltage and movement, allowing for 3-wire installation. Ideal for older vehicles with no engine information and covert installation for asset recovery.</p>

## Preparing For Installation

Before installing your device, please record your device serial number. You will need this information at a later time to verify your installation.

1. Verify that we support your vehicle by carefully reading the device release notes at [goo.gl/fZURff](http://goo.gl/fZURff) or from the vehicle specific installation notes at [goo.gl/MCIXt0](http://goo.gl/MCIXt0). If you have any questions or concerns, please consult your Authorized Reseller.
2. Ensure no dash warning lights are on in the vehicle while it is running, and all other functions such as headlamps and flashers etc. are working prior to installing the device.

## Installation Instructions

 Read important related safety information and limitations of use following these installation instructions. Read and follow all instructions and warnings to prevent serious injury and/or vehicle damage.

**WARNING!** Prior to GO installation, read and follow important safety information including limitations of use located following these installation instructions. Always read and follow all safety information to prevent loss of vehicle control and serious injury.

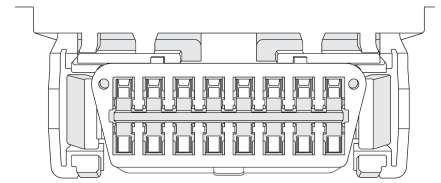
**WARNING!** Some installations are not straightforward and must be completed by an Authorized Geotab Installer to ensure a secure installation. An unsecure device installation can cause poor electric and/or data connection that can lead to short circuits and fires or cause malfunctions of vehicle controls that can result in serious personal injury or significant damage to your vehicle. Some examples requiring professional installation from an Authorized Geotab Installer are:

- The OBD port location is such that the device protrudes and interferes with entering or exiting the vehicle, or located where it could be inadvertently kicked or bumped during vehicle operation
- The device isn't fully secured and so may come loose with vibrations or accidental contact
- An electrical harness or additional wiring is required
- Vehicle mounting modifications are required to secure the device, i.e. removing of panels; deformed/damaged OBD connector; or physical damage to the electrical wiring
- The device does not beep six times and power on when first installed
- The installer questions their ability to complete a secure installation according to these instructions

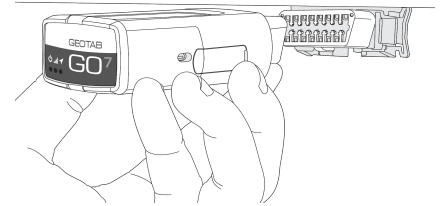
**WARNING!** Do not attempt to install, reconfigure, or remove any product from a vehicle while the vehicle is in motion or otherwise in operation. All installation, configuration, or removal must be done only in stationary vehicles which are securely parked. Attempting to service devices while the vehicle is in motion could result in malfunctions or accidents, leading to death or serious personal injury.

- 1 Locate the vehicle's engine diagnostic port, typically found in the driver's area at or below knee level.

**Note:** Heavy-duty vehicles use a different connector system. Contact your Authorized Geotab Reseller for heavy-duty connector applications or for extension harnesses should it be necessary to place your device away from the engine diagnostic port.

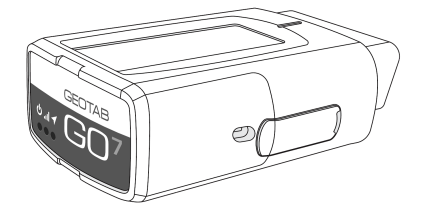


- 2 Align the receiver end of the device with the engine diagnostic port and simply push in place, ensuring that the device is well connected to the diagnostic port. You will hear 6 quick beeps and all three lights on the device will flash briefly.



- 3 With the vehicle parked outdoors to locate satellites and vent exhaust fumes, start the vehicle and allow it to run for approximately 3 minutes. During this period you will notice the Red LED power on and glow on the face of the device. Shortly afterwards the Green and Blue LEDs will light up when the device connects with the cellular and GPS networks. This initial startup may take several minutes to complete.

- 4 Once all three LED lights have lit up, secure your device using the supplied cable tie.

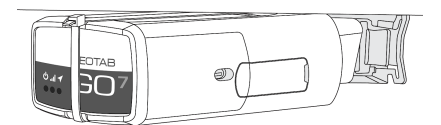


### 5 **GO7 vs. GO6 GPS Antenna**

When performing under-dash installations with an extension harness, it is important to be aware of the type of device you are installing (GO6 vs. GO7). Make sure the antenna side is always pointing upwards towards the sky for faster GPS latch times.

The GPS antenna in a **GO6** is located on the top side of the device.

The GPS antenna in a **GO7** is located on the bottom side of the device.



- 6 Please verify that the device is communicating correctly. Using a PC or smartphone, navigate to [installmygps.com](http://installmygps.com).

Fill in your name, company, and the Geotab GO device serial number (found at the bottom of the device) and click on **Log Install**.

- 7 You will now see a screen that displays the current status of the device. If the device is communicating correctly, you will see **GREEN** lettering with the last valid GPS record. If the text appears in **RED**, the device is unable to communicate and you must verify the installation.

**Installer Name:**

**Installer Company:**

**Device Serial No:**

**Odometer:**

**Asset Number:**

**WARNING!** All in-vehicle devices and related cabling must be securely fastened and kept clear of all vehicle controls, including gas, brake and clutch pedals. This requires the use of a cable tie when securing the device or any extension harness to the OBD connector, securing both sides of the harness. If you do not use a cable tie, vibration in the vehicle can lead to a loose connection which could indirectly cause the vehicle's engine computer to fail, loss of vehicle control and cause serious injury. Inspect devices and cabling regularly to ensure all devices and cables remain securely attached.

**WARNING!** If at any point after an in-vehicle device is installed a warning lights up on the vehicle dash or the vehicle stalls or has a marked drop in performance, shut off the engine, remove the device, and contact your reseller. Continuing to operate a vehicle with these symptoms can cause loss of vehicle control, and serious injury.

## **Important Safety Information and Limitations of Use**

For the latest version of the Limitations of Use, please visit: [goo.gl/k6Fp0w](http://goo.gl/k6Fp0w).

**WARNING!** Your in-vehicle devices must be kept clear of debris, water and other environmental contaminants. Failure to do so may result in units malfunctioning or short-circuiting, that can lead to a fire hazard and cause loss or serious injury.

**WARNING!** Do not attempt to remove the devices from the vehicle in which they are originally installed for installation in another vehicle. Not all vehicles share compatibility, and doing so may result in unexpected interactions with your vehicle, including sudden loss of power or shutdown of the vehicle's engine while in operation or cause your vehicle to operate poorly or erratically and cause serious injury and/or vehicle damage.

**NOTICE:** This product does not contain any user-serviceable parts. Configuration, servicing, and repairs must only be made by an authorized reseller or installer. Unauthorized servicing of these products will void your product warranty.

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).