

The IOX-KEYLESS supports remote access to a vehicle and supports multiple markets including corporate car sharing, consumer car sharing, and traditional car rental services.

### Top Features

- Easy-to-install IOX™ for the Geotab GO device
- Bluetooth® connection to scan for available Android/iOS devices to connect to the GO™ device and send vehicle commands
- Starter inhibit functionality (With accompanying expansion harness)

## IOX-KEYLESS hardware technical specifications H/W: B1

|                                                                   |                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bluetooth® Module                                                 | Version 4.0 Single Mode                                                                                                                                                                                                                                                                                                                                     |
| Size                                                              | 121 mm L x 100 mm W x 24.5 mm H                                                                                                                                                                                                                                                                                                                             |
| Housing                                                           | Black, moisture-resistant thermoplastic overmold                                                                                                                                                                                                                                                                                                            |
| Interfaces                                                        | <b>CAN:</b> 500 kbps (for daisy-chaining)                                                                                                                                                                                                                                                                                                                   |
| Nominal Input Voltage                                             | 12 V / 24 V                                                                                                                                                                                                                                                                                                                                                 |
| Current Draw IOX-KEYLESS                                          | 49 / 24 mA at 12 / 24 V Operating mode (typical/nominal current draw)                                                                                                                                                                                                                                                                                       |
| on GOx daisy chain                                                | 75 / 40 mA at 12 / 24 V Operating mode (max. current draw)<br><br>0.6 / 0.4 mA at 12 / 24 V Sleep mode (min. current draw)                                                                                                                                                                                                                                  |
| Keyfob Compatibility                                              | Compatible with any 3 V keyfob which is paired to a centralized, automatic locking system                                                                                                                                                                                                                                                                   |
| Temperature Rating                                                | -40 °C to +85 °C                                                                                                                                                                                                                                                                                                                                            |
| Connectors                                                        | <b>Male Mini-USB Type-B connector:</b> Daisy chain power and CAN in<br><br><b>Female Mini-USB Type-B connector:</b> Daisy chain power and CAN out<br><br><b>10-Pin socket:</b> Starter inhibit relays<br><br><b>4-Pin socket:</b> Proximity card reader (Future support)<br><br><b>6-Pin socket:</b> Vehicle Secondary CAN connection/GPIO (Future support) |
| Compatible Devices                                                | GO9® and newer. IOX-KEYLESS is NOT compatible with the IOX-BT.                                                                                                                                                                                                                                                                                              |
| GO9® can source a maximum total current to the IOX in Daisy Chain | 2500 mA at 12 V/24 V<br><br><b>* NOTE:</b> For each IOX in the Daisy Chain, add the max. current draw, and do not exceed the max. total IOX current draw.                                                                                                                                                                                                   |

### Certifications

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| RAMATEL         | C-29083                                                         |
| E-Mark          | E57 10R-060091                                                  |
| Contains FCC ID | QOQBLE121LR                                                     |
| Contains IC     | 5123A-BGTBLE121LR                                               |
| Compliance      | FCC, ISED, CE, E-Mark, REACH, RoHS, WEEE, UKCA, ANATEL, RAMATEL |

## IOX Installation Instructions

**! IMPORTANT:** Professional installation (Certified Geotab® Installer or equivalent) is required for the safe and proper installation of this product (harness and/or IOX). The installer must have sufficient technical knowledge and expertise for the respective installation.



**WARNING!** Always read and follow all safety information, including Important [Safety Information and Limitations of Use](#), before harness and/or IOX installation. Disconnect the GO device from the vehicle before installation and connect it post-installation (see [goo.gl/rkLRiA](#)). Failure to follow these instructions and warnings can result in loss of vehicle control and serious injury or vehicle damage.

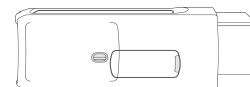
**\* NOTE:** It is recommended that the GO device and the IOX-KEYLESS are installed in a vehicle with an appropriate T-harness to install the devices away from the OBD port (to reduce the risk of accidental unplug). The T-harness is also used to install another device into the OBD port without having to remove the GO9 device. The most common harness is the [HRN-GS16K22](#) - harness installation depends on the vehicle. Please refer to the appropriate installation instructions for install.

**\* NOTE:** IOX-KEYLESS is NOT compatible with the IOX-BT.

## How to Install IOX-KEYLESS

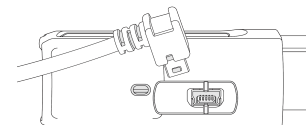
See video [How to Perform an Advanced IOX-KEYLESS Installation](#).

- 1 Unplug the Geotab GO device from the vehicle and remove the IOX expansion port cover on the GO device.



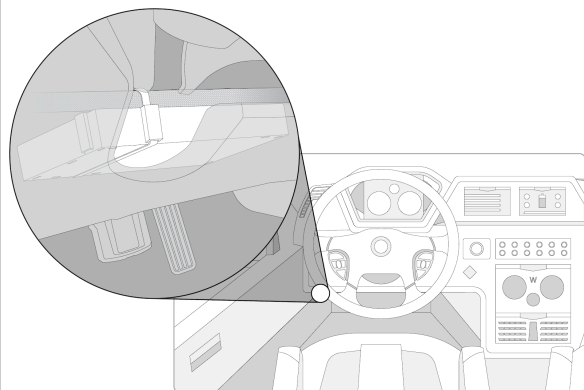
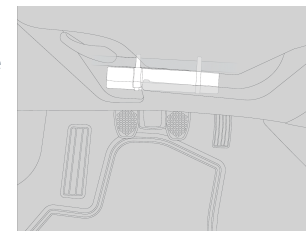
- 2 Plug the 90° USB connector from the IOX into the GO device. Secure the USB connector using a cable tie. Please note that over tightening the cable tie may damage the USB connector.

**\* NOTE:** Insert the USB connector in the orientation displayed in the image.



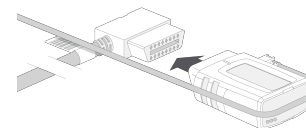
- 3 Choose an appropriate location to mount and conceal the IOX. The IOX can be mounted underneath the dashboard trim — as shown in the image to the right — or attached directly to the trim, vehicle frame, or to a wire bundle as seen below. Use the existing cable tie locations on the IOX casing to attach the IOX to the vehicle.

**\* NOTE:** Choose an area where the IOX-KEYLESS does not interfere with the safe operation of the vehicle. Keep the routing of the IOX wire in mind when choosing a location for the IOX casing.



The IOX can be mounted in vertical or horizontal orientation — depending on the target vehicle for installation.

- 4 Once you connect the IOX-KEYLESS to the GO Device, plug in the GO Device and immediately start the vehicle. The GO Device will enter debug mode.



- 5 Once the device is connected and receives power, the LEDs on the front of the device start blinking then turn solid once completing the actions below.

**Red** LED — Device configuration

**Green** LED — Cellular network connectivity

**Blue** LED — GPS network connectivity

The device emits two quick beeps every 60 seconds during setup. Initial startup may take several minutes to complete.



- 6 Navigate to [installmygps.com](#) to verify that the device is communicating. In the space provided, enter your name, the company name, and the GO Device serial number — found at the bottom of the device. Click **Log Install**.

7 After you click **Log Install**, the web page displays the current communication status of the device — in **GREEN** or **RED** text. If the device is communicating, the status is displayed in **GREEN** text. If the device is not communicating, the status is displayed in **RED** text.

\* **NOTE:** If the device is not communicating, ensure the GO Device is installed correctly and try again.

**Installer Name:**

**Installer Company:**

**Device Serial No:**

**Odometer:**

## Termination Shunt

The IOX comes with a termination shunt installed in the expansion port. If you plan to install more than one IOX in a daisy chain, you must remove the shunt from each device in the line, except for the last IOX connected. The shunt must remain in the last IOX and secured with a cable tie.

The shunt in the last IOX device ensures the GO device detects and configures the IOX as effectively as possible.

\* **NOTE:** Failure to install the shunt in the last IOX may affect IOX communication. To ensure the IOX communicates, please secure the shunt with a cable tie.

## Important Safety Information and Limitations of Use

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

**WARNING!** Do not attempt to install, configure or remove any product from any 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 units while being operated could result in malfunctions or accidents, leading to death or serious personal injury.

**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. You must inspect devices and cabling on a regular basis to ensure all devices and cabling continue to be securely attached. Loose cabling or devices may impede the use of vehicle controls, resulting in unanticipated acceleration, braking or other loss of vehicle control, which could lead to death or serious personal injury. Improperly fastened in-vehicle devices may detach and impact operators upon sudden acceleration or deceleration, which may cause injury.

**WARNING!** If at any point after an in-vehicle device is installed a warning light illuminates 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.

**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 or vehicle damage 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 death or 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.

## Regulatory Statements

### Warning: RF Exposure Compliance

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. Users and installers must be provided with antenna installation instruction and transmitter operating conditions for satisfying RF exposure compliance.

L'antenne ou les antennes utilisées pour cet émetteur doivent être installées pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doivent pas être co-localisées ou fonctionner en conjonction avec une autre antenne ou émetteur. Les utilisateurs et les installateurs doivent recevoir des instructions d'installation de l'antenne et les conditions de fonctionnement de l'émetteur pour satisfaire la conformité à l'exposition aux RF.

## CANADA

**CAN ICES-003 (B) / NMB-003 (B)**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## USA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**\* NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Geotab could void the user's authority to operate the equipment.

## EU

Product Wireless Information: 2400-2483.5 MHz: Max 9.6 dBm EIRP

SCIP Number: 7c3ca3ca-f957-4273-a6ce-e1f6b4765666

## Germany

Wir besitzen keine Versand- und Lagerfläche in Deutschland und sind nicht von der Rücknahmepflicht nach § 17 ElektroG betroffen.

## Brazil

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para mais informações consulte o site da ANATEL – ([www.anatel.gov.br](http://www.anatel.gov.br))