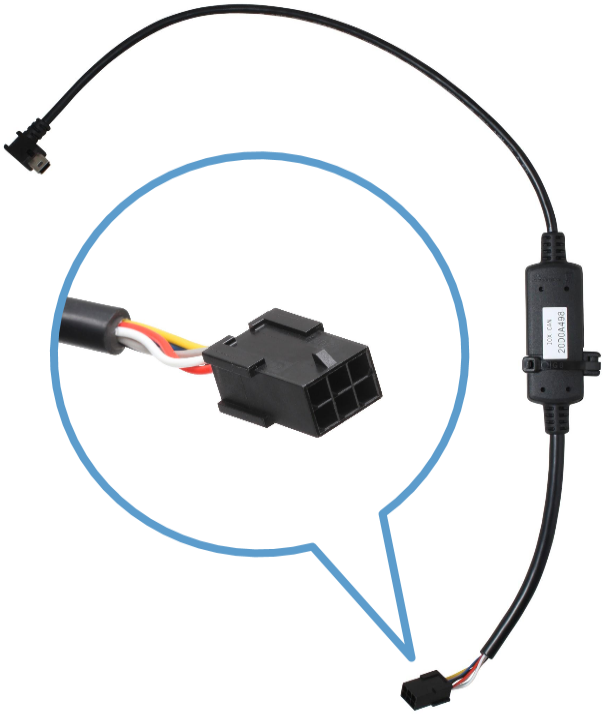
IOX-CAN

For the most up to date version, please visit: goo.gl/r5lc50



Interfacing With Third-Party Devices

The IOX-CAN integrates third-party data with the MyGeotab software — allowing supplementary fleet data collection and consolidation in one place.

Customers and Partners can also transmit data through the Geotab® GO device using the Third-Party Data Protocol (my.geotab.com/sdk) on our private CAN Bus via the IOX-CAN. No initial handshake is required. If third-party data is in the correct format, the GO device begins processing and transmitting the data to MyGeotab.

Additional Data Collection Includes:

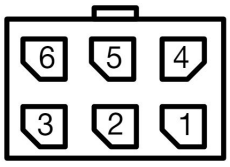
- Driver Distraction Monitoring
- Temperature Monitoring for refrigerated fleets
- Tire Pressure Monitoring

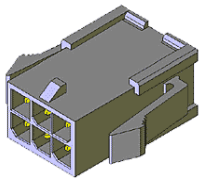
For more information regarding Third-Party Devices and data collection through Geotab Partners, please visit: www.geotab.com.

IOX Hardware Technical Specifications

Weight	40 g
Size	**Overall length**: 500 mm L **Widest point**: 36 mm W × 16 mm H
Inputs/Outputs	External third-party CAN Terminating resistor enable (jumper input) Third-party device power supply
Housing	Black, moisture-resistant thermoplastic overmold
Power Output	1 A @ 12 V
Current Rating	**Operating Mode**: 30 mA **Sleep Mode**: 0.3 mA
Temperature Rating	−40 °C to +85 °C
Interfaces	**External third-party CAN**: 250 or 500 kbps **CAN**: 500 kbps (for daisy chaining)
Third-Party Interface Current Output Limit	1 A
Compatible Devices	GO6®, GO7®, GO7 Rugged, GO8®, GO8 Rugged, GO9®

Connectors





Keyed mini-USB type-B plug:
Daisy chain power & CAN in

Keyed mini-USB type-B socket:
Daisy chain power & CAN out

Molex 6-pin male connector:

1. Yellow - CAN positive
2. Blue - CAN negative
3. Black - Ground
4. Grey - Terminating resistor enable (jumper pin A)
5. White - Terminating resistor enable (jumper pin B)
6. Red - Power output

Note: When installed in a vehicle, The IOX-CAN and third-party devices derive the supply voltage level from the car battery.

Data Transmission Rates

The third-party CAN interface adjusts its baud rate based on the baud rate of the connected CAN bus (either 250 kbps or 500 kbps). The IOX-CAN must receive a minimum of one message to set the baud rate. Shorting jumper pin A and jumper pin B together enables the internal 120 Ohm terminating resistor — required if the application itself is not already terminated.

IOX Installation Instructions

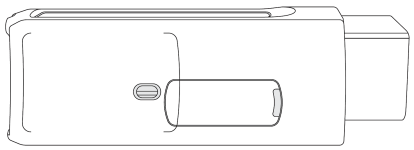
NOTE: Professional Installation Required — Installation of the IOX-CAN requires the installer to have sufficient technical knowledge and expertise for mobile device installation and integration into modern vehicles, i.e. Certified Geotab Installer certification or equivalent.

WARNING! Prior to IOX-CAN installation, read and follow GO device installation instructions (goo.gl/rkLRiA) to both verify any existing GO device installation is correct and that you are qualified to complete this IOX-CAN installation. Incorrect installation of either the GO device, and/or IOX-CAN can result in loss of vehicle control and serious injury.

WARNING! Prior to IOX-CAN installation, read and follow Important Safety Information and Limitations of Use, located at the end of the document. Always read and follow all safety information to prevent loss of vehicle control and serious injury.

How to Install IOX-CAN

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

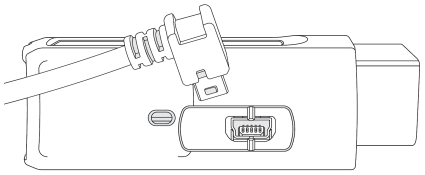


2. Connect the third-party device to the 6-pin Molex connector on the IOX-CAN.

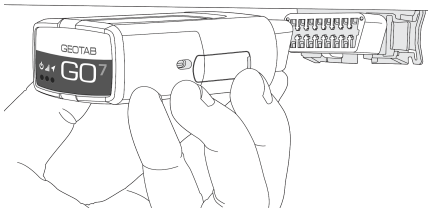
   WARNING! The molex 6-pin connector of the IOX-CAN must ONLY connect to a third party device. Connecting the molex 6-pin connector to a vehicle's internal communication network may cause interference, resulting in unexpected vehicle behavior, vehicle damage and/or serious personal injury or death.

3. Plug the 90° USB connector from the IOX in the GO device. Secure the USB connector using a zip tie. Please note that over tightening the zip tie may damage the USB connector.

   Note: Insert the USB connector in the orientation displayed in the image.



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



5 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.**

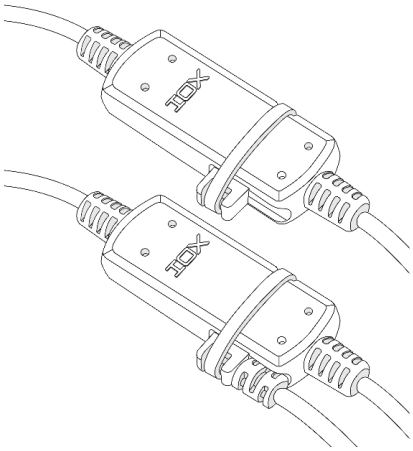
6 After you click **Log Install**, the web page displays the current communication status of the device — in GREEN or RED text. If the device is communicating, the status is displayed in GREEN text. If the device is not communicating, the status is displayed in RED text.

Note: If the device is not communicating, please verify the GO device is installed correctly and try again.

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, with the exception of the last IOX connected. The shunt must remain in the last IOX and secured with a zip 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 using a zip tie.

Valor

To log temperature every five minutes from the Valor TempTrac solution, apply the following custom parameter to the GO device using the MyGeotab software:

<GoParameters><Parameter Description=" Log Reefer Temp Periodically" Offset="180" Bytes="02"/></GoParameters>

This functionality requires GO device firmware XXX.20.43 or higher.

Important Safety Information and Limitations of Use

For the latest version of the Limitations of Use, please visit: 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.