

# Hardware

## How do I install an IOX-based accessory in Geotab?

The Geotab GO9™ device is the world's only expandable plug-&-play vehicle telematics platform that allows for unique IOX™ expandability. The IOX-AUX gives you the opportunity to monitor a variety of vehicle inputs allowing you to manage your fleet better. The IOX-AUX gives you the option to monitor up to 8 inputs at any time by using two IOX-AUX's daisy. This harness can operate in a range of 0 to 32 volts.

### [User Guide and Technical Specifications](#)

#### Installation Instructions

Identify and test the connection points for the auxiliaries you wish to monitor. Keep in mind the IOX™ wiring is limited to a reach of approximately 3 ½ feet from the GO9™ mounting location. Extending the wiring to reach some connection points may be necessary. Make the auxiliary connections and secure them using an approved method such as “T” tapping. Ensure none of the components or wiring interferes with the safe operation of the vehicle.

1.	Start with the Geotab GO9™ device unplugged from the vehicle. Remove the blue IOX™ expansion port cover on your GO9™.	
2.	Plug in the 90° USB connector of the IOX™ to the GO9™. Secure the USB connector using a zip tie, being careful not to over tighten it, damaging the USB. <b>Note:</b> The USB can only be inserted in one orientation (shown in image).	
3.	Your IOX-AUX has four inputs and comes configured as <b>Aux 1-4</b> . Connect the desired auxiliaries in the vehicle to the IOX-AUX wires as needed. If more than four auxiliaries are required please see <b>Expanding your IOX-AUX</b> .	
4.	Once your connections to	

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	the IOX-AUX wiring have been made, connect the GO9™ and immediately start the vehicle. The IOX™ is now in self-learn mode and your GO9™ is in debug mode.	
5.	Trigger each auxiliary one at a time. When an input is learned, the GO9™ will emit the appropriate number of beeps that correspond to the auxiliary number. You will need to hear the beeps both when the auxiliaries are triggered ON AND Off. E.g. Aux 2 would sound two beeps when triggered ON and then two beeps when triggered OFF. Repeat this step until the corresponding beeps are heard on BOTH trigger ON and trigger OFF.	

## Expanding your IOX-AUX

Expanding from four to eight auxiliaries is as simple as plugging in a second IOX-AUX to the expansion port of the first and following the steps below. Remember you will need to remove the zip-tie from the original IOX-AUX.

In order for the second IOX-AUX to report as 5-8 you will need to locate the red and black loop, or “short”, on the IOX-AUX and cut the wires. This will configure the IOX™ to become Aux 5-8.

Aux 5 = Blue

Aux 6 = Orange

Aux 7 = Green

Aux 8 = White

To complete the installation, you will need to ensure that both IOX-AUX are zip-tied together.

**Note:** By cutting the loop, this IOX-AUX will always report as Aux 5-8, regardless of whether or not there is an Aux 1-4 installed previously.

## Termination Shunt

You may notice your IOX™ comes with a termination shunt installed in the expansion port. If you are installing more than one IOX™ in a daisy chain you will

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need to remove the shunt from each device in line with the exception of the “LAST” IOX™ connected. That shunt must remain in the last IOX™ and should be secured with a zip tie.

The use of the shunt in the LAST IOX™ is necessary for the GO9™ to learn and configure the IOX™ as effectively as possible.

**Note: Failing to install the shunt in the last IOX™ could affect IOX™ configuration, it is recommended you secure the shunt using a zip tie if not already done.**

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Author: n/a

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