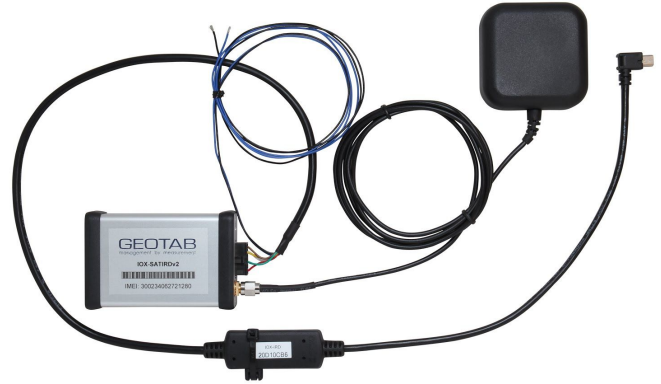


## Sat Trax Iridium: Satellite Vehicle Tracking

### IRIDIUM Satellite

The IRIDIUM Network is useful in the event the Geotab® GO Device travels outside of cellular or network coverage. The IRIDIUM Satellite modem allows the GO device to communicate over the IRIDIUM Network. This allows users to track their fleet even when cellular connectivity is lost.



### Man-Down Add-On

A panic button can be wired into the IRIDIUM Satellite IOX®. When triggered, it sends a top priority “emergency” message through the satellite network to the MyGeotab user.

## IOX Specifications and Installation

### Hardware Technical Specifications



Weight	<ul style="list-style-type: none"> <li>65 g</li> </ul>
Size	<ul style="list-style-type: none"> <li>Overall length: 850mm</li> <li>Widest Point: 17mm x 34mm</li> </ul>
Housing	<ul style="list-style-type: none"> <li>Black, moisture-resistant thermoplastic overmold</li> </ul>
Interfaces	<ul style="list-style-type: none"> <li>CAN: 500 Kb/s; for daisy chaining</li> <li>RS-232 serial interface</li> </ul>
Inputs	<ul style="list-style-type: none"> <li>Emergency Switch Line: Open - shorted to ground</li> </ul>
Power Output	<ul style="list-style-type: none"> <li>IRIDIUM Interface: 900mA @ 12V/24V</li> <li>Daisy Chaining: 2500mA @ 12V/24V</li> </ul>
Current Rating	<ul style="list-style-type: none"> <li>Operating Mode: 30mA</li> </ul>

	<ul style="list-style-type: none"> <li>• Sleeping Mode: 0.4mA</li> </ul>
Temperature Rating	<ul style="list-style-type: none"> <li>• -40°C to +85°C</li> </ul>
Connectors	<ul style="list-style-type: none"> <li>• Keyed mini-USB type-B plug: Daisy chain power &amp; CAN in</li> <li>• Keyed mini-USB type-B socket: Daisy chain power &amp; CAN out</li> <li>• 12-pin Molex 4302-1200: IRIDIUM modem</li> </ul>
Installation	<ul style="list-style-type: none"> <li>• Keyed mini-USB plug connects to GO Device or another IOX</li> <li>• 12-pin plug connects to IRIDIUM unit</li> <li>• Blue/Black wires can be connected to an emergency “panic button” switch</li> </ul>
Compatible Firmware	<ul style="list-style-type: none"> <li>• GO6®:101.4.XX or higher &amp; GO7®:105.2.XX or higher</li> </ul>

## IRIDIUM Device Specifications and Parameters

### Hardware Technical Specifications



Weight	158 g (0.35 lbs)
Size	80 mm (L) x 54 mm (W) x 23 mm (H)
Housing	Aluminum casing
Inputs	RS-232 Interface
Environmental Tests	Operating Temp. -40°C to 80°C
Operating Voltage	8V to 36V
Current Rating	Operating Current: 100mA - 125mA
Antenna	Standard with magnetic roof mount and sticky adhesive for optional dash mount.

### Standard Logging Features (Activated by Default Custom Parameters\* below)

\*These custom parameters must be applied to a device to receive any IRIDIUM data and



they must be applied when the GO Device has cellular coverage. If the vehicle is out of cellular range, it will not be able to receive firmware updates or any other device parameter updates.

- **Ignition:** Sends a log when ignition changes state (On & Off)
- **Poll:** Gives end users the option to request the current location of the device. In MyGeotab, select the vehicle on the live map, then using the small arrow on the right click "Request current location"
- **Update Period:** Allows the device to send a positional update every 30 minutes
- **Emergency Trigger:** Allows the driver to send an emergency/distress log to head office. The Geotab device will notify the driver when the message has been received by MyGeotab
- **Accident Upload Event via IRIDIUM:** Allows the device to send an "Accident Upload Event" fault
- **Switch to IRIDIUM Satellite Coverage:** Allows the device to send a log indicating when it has switched to sending data over the IRIDIUM network

### Default IRIDIUM Parameters for Customers

Ignition ON & OFF; Accident Level Events; SATIRD Coverage	<GoParameters><Parameter Description="Monitor IGN ON/OFF, Accident Level Events, SATIRD Coverage" Bytes="3D" Offset="58"/></GoParameters>
Update every 30min	<GoParameters><Parameter Description="Satellite update period as 30min" Bytes="1E" Offset="59"/></GoParameters>
Panic Trigger on Aux 1 (Contact Geotab Support to change Aux #)	<GoParameters><Parameter Description="Aux 1 trigger emergency message to be sent via satellite" Bytes="01" Offset="61"/></GoParameters> <b>Note: Required for GO4v3 Installs Only</b>

### Extended Logging Features (Custom Parameters)\*

- **Monitor Vehicle Voltage:** Allows the device to send a message when the vehicle's voltage drops below 'x' volts
- **IRIDIUM AUX:** Allows the driver to send a positional update via auxiliary trigger
- **Monitor Movement w/ IGN Off:** Allows the device to send a positional update if the device detects movement with no voltage fluctuation and the ignition is off