

## Geotab® GO9+™ — Expandable Telematics Device with Wi-Fi Hotspot

For the most up-to-date version of this document, visit: [gtb.page.link/8C7f](https://gtb.page.link/8C7f)



### GO9+ device

Geotab's GO9+ telematics device builds on the class-leading GO9 with the added benefit of a CAT4 cellular modem (available on all GO9+ versions) and on-board Wi-Fi hotspot (not available on the GP9-LTETENG). Similar to the GO9®, the GO9+ offers state-of-the-art GPS technology, g-force monitoring, GEOTAB IOX® expandability, engine and battery health assessments, and communication on the LTE network.

### Vehicle tracking

Using Geotab's patented tracking algorithm, the GO9+ accurately recreates vehicle trips and analyzes incidents. Improve fleet safety and performance. The GO9+ relays in-vehicle alerts to notify drivers of infractions in real-time and delivers live driver coaching — with hardware Add-Ons — for improved on-road performance. The GO9+ does not require a dash-mounted antenna or any wire splicing.

### 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).
- \* NOTE:** FIPS 140-3 Inside (Certificate #4875), deploying soon.

## In-vehicle Wi-Fi hotspot

Geotab's GO9+ telematics device delivers an in-vehicle Wi-Fi hotspot to connect tablets, phones, and other Wi-Fi capable devices. Stay connected to your drivers at all times and improve your fleet functions.

\* **NOTE:** Wi-Fi functionality is not available on the GP9-LTETENG version of the GO9+.

## Top features

- Wi-Fi hotspot functionality (not available on the GP9-LTETENG)
- Easy installation
- LTE Connectivity
- Small form factor device
- Intelligent in-vehicle driver coaching
- Breakthrough collision detection and notification
- External device expandability via IOX Technology
- Built-in auto-calibrating accelerometer and gyrometer
- Near-real-time vehicle data
- Fast GPS acquisition time using Almanac OTA support
- Support for GPS+GLONASS connectivity
- Additional native support for more vehicle protocols
- End-to-end cybersecurity

## Technical specifications and features

<b>Interfaces</b>	<b>Engine Management</b>
	Legacy Interfaces
	<ul style="list-style-type: none"><li>• Physical Interfaces: J1850 PWM, J1850 VPW, J1708, 9141-2 and ISO 14230 (KWP2000) at Pins 2 and 10</li><li>• Speed: 10.4/41.6 kbaud for J1850, 9141-2 and ISO 14230 and 9600/62500 bps for J1708</li><li>• Data packet protocols: J1850 PWM, J1850 VPW, J1708, J1708 CAT, ISO Toyota, ISO Vario, ISO Ford, ISO Isuzu</li><li>• Diagnostic/application protocols: OBD2</li></ul>
	Standard CAN
	<ul style="list-style-type: none"><li>• Physical Interfaces: CAN at Pins 6 and 14, Pins 3 and 11, Pins 2 and 10</li><li>• Speed: 125/250/500 kbps</li><li>• Data packet protocols: ISO 15765 CAN, GMLAN, VW TP 2.0, SAE J1939-21, SAE J1939-FMS</li><li>• Diagnostic/application protocols: Std OBD2, WWH-OBD, UDS (ISO 14229)</li></ul>
	Single Wire CAN
	<ul style="list-style-type: none"><li>• Physical Interfaces: Single Wire CAN at Pin 1</li><li>• Speed: 33/50/83.3 kbps</li><li>• Data packet protocols: GMLAN, OEM Specific</li></ul>
	Medium/Low Speed CAN
	<ul style="list-style-type: none"><li>• Physical Interfaces: J1939-13 Type 2, TTL CAN at Pins 3 and 11, Pins 2 and 10</li><li>• Speed: 50/125/250 kbps</li><li>• Data packet protocols: GMLAN, OEM Specific, ISO 15765 CAN, SAE J1939-21, SAE J1939-FMS</li><li>• Diagnostic/application protocols: Std OBD2, WWH-OBD, UDS (ISO 14229)</li><li>• 2- or 3-wire install support (for older vehicles/asset tracking)</li></ul>

	<b>Input/Output</b> <ul style="list-style-type: none"> <li>• Buzzer</li> <li>• LEDs – Ignition, GPS, Cellular</li> <li>• IOX (more details below)</li> <li>• Internal GPS/Cellular antennas</li> </ul>
<b>Cellular</b>	Availability varies by certification. GO9+ LTE ATT/TELUS/Rogers <ul style="list-style-type: none"> <li>• LTE (CAT-4): Bands 2/4/5/12</li> <li>• 3GPP Compliant</li> </ul>
<b>GPS receiver</b>	72-channel engine (GPS/GLONASS/Beidou/Galileo/SBAS/WAAS/EGNOS/MSAS/GAGAN) <ul style="list-style-type: none"> <li>• Under 1 second Time-To-First Fix for hot and aided starts</li> <li>• Cold start: 26s</li> <li>• Concurrent GPS &amp; GLONASS system</li> <li>• A-GNSS</li> <li>• Accuracy: ~2.0 m CEP</li> <li>• OTA FW updates supported</li> </ul>
<b>Onboard Wi-Fi</b>	Supports WPA2+AES security protocol Supports up to 10 simultaneous connections 802.11 b/g/n 2.4 GHz DL range: 0–25 Mbps UL range: 0–10 Mbps * <b>NOTE:</b> Wi-Fi functionality is not available on the GP9-LTETENG version of the GO9+.
<b>Environmental</b>	<b>Operating Temperature:</b> -40°C to 85°C <b>SAE J1455</b> Temperature <ul style="list-style-type: none"> <li>• Temperature Cycle Test</li> <li>• Thermal Shock</li> </ul> Humidity Mechanical Vibration <ul style="list-style-type: none"> <li>• Random Vibration Testing</li> </ul> General Heavy-Duty Truck Electrical Environment <ul style="list-style-type: none"> <li>• Steady State Electrical Characteristics</li> </ul>
<b>Accelerometer &amp; gyroscope</b>	3D accelerometer and 3D gyroscope. Full-scale acceleration range of ±8 g and an angular rate range of ±250 dps. Acceleration and angular rate output data rate of 1.66 kHz.
<b>Mechanical</b>	<b>Weight:</b> 97 g (0.21 lbs) <b>Dimensions:</b> 77.3 mm L × 53 mm W × 27.5 mm H <b>Housing:</b> PC + ABS - SABIC CY6414 (Flame retardant)
<b>Electrical</b>	<b>Voltage:</b> 12 V and 24 V systems supported

	<p>Tracking mode (ignition on)</p> <p><b>Wi-Fi off</b></p> <ul style="list-style-type: none"> <li>Peak power: 320 mA @ 12 V, or 3.84 W 184 mA @ 24 V, or 4.416 W</li> <li>Average power: 96.2 mA @ 12 V, or 1.15 W 55.1 mA @ 24 V, or 1.322 W</li> </ul> <p><b>Wi-Fi on</b></p> <ul style="list-style-type: none"> <li>Peak power: 433 mA @ 12 V, or 5.196 W (Tx power is 23 dBm) 249 mA @ 24 V, or 5.975 W</li> <li>Average power: 330 mA @ 12 V, or 3.96 W (Tx power is 10 dBm) 189.7 mA @ 24 V, or 4.554 W</li> </ul> <p>* <b>NOTE:</b> Wi-Fi functionality is not available on the GP9-LTETENG version of the GO9+.</p> <p><b>IOX Operating Mode</b></p> <ul style="list-style-type: none"> <li>Up to 2.75 A Current</li> <li>Resettable overcurrent protection to IOX</li> </ul>
<b>Compliance</b>	FCC, ISED, PTCRB, NOM, CE, RoHS, REACH, WEEE, UKCA, E-Mark, ANRT <b>Carriers:</b> AT&T, TELUS, Rogers
<b>Over-the-air (OTA) support</b>	<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
<b>In-cab buzzer</b>	<b>Decibel Output:</b> >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 <b>Test Mode:</b> Diagnostic beeps for validating GPS and wireless connection
<b>Voltage recording</b>	Curve-based voltage logging to detect weak batteries, failing alternators, and failing starters
<b>64-Mb Non-volatile flash memory</b>	<b>Main Data Memory:</b> Up to 80,000 logs in offline mode (out of coverage) <b>Collision 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 collision-level events.
<b>Recording parameters</b>	Patented curve-based GPS/voltage/accelerometer/engine data logging algorithm for fewer, more accurate data points
<b>Intelligent ignition</b>	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.

## Preparing for installation

Before installing the GO device, please record the device serial number. The serial number is used to verify the communication status of the GO device.

Carefully read the device release notes ([goo.gl/fZURff](http://goo.gl/fZURff)) or the vehicle-specific installation notes ([goo.gl/MCIXt0](http://goo.gl/MCIXt0)) to verify

that we support your vehicle. If you have any questions or concerns, please consult your Authorized Reseller.

Ensure no dash warning lights are on in the vehicle while it is running, and all other functions, such as headlamps and flashers etc. work prior to installing the device.

Before Installation, add the device to your MyGeotab™ database using the device serial number. This will ensure all data logged from point of install onward is sent to your database.

**\* NOTE:** You must select the correct Geotab hardware suitable for your specific installation environment and vehicle use. For installations where exposure to the elements (e.g., liquids, dust, or interior wet cleaning/powerwash) is anticipated, select the GO RUGGED device (GR8 rated IP67, and GR9 rated IP68 and IP69K). For additional information regarding environmental contaminants, see the applicable installation instructions as well as the Important Safety Information & Limitations of Use section below.

## 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:

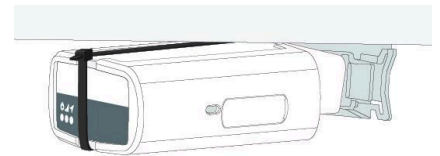
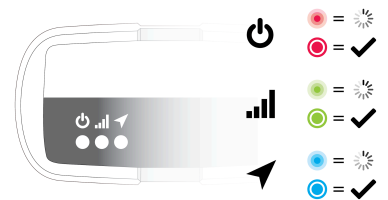
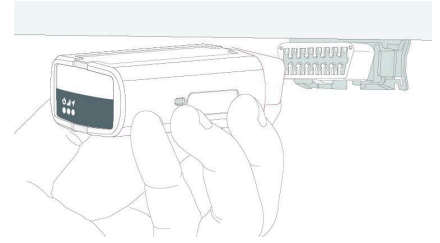
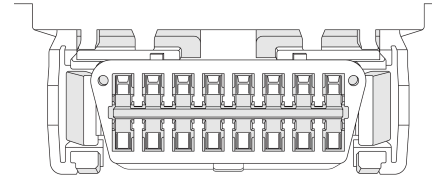
- The OBD port location is such that the device protrudes and interferes with entering or exiting the vehicle, or located where it could be inadvertently kicked or bumped during vehicle operation
- The device isn't fully secured and so may come loose with vibrations or accidental contact
- An electrical 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 collisions, leading to death or serious personal injury.

Please refer to the [GO9+ Installation FAQ](#) if any questions during the installation process.

## Installing the GO device

- 1 Locate the vehicle's engine diagnostic port, typically found in the driver's area at or below knee level.  
**\* NOTE:** Heavy-duty trucks often use a different Diagnostic Link Connector (DLC). Contact your Authorized Reseller to learn about DLC applications for heavy-duty trucks, or how to use a vehicle-specific harness if available.
- 2 Align the receiver end of the device with the engine diagnostic port and push in place. Please ensure the device is connected to the diagnostic port. Once connected, the device emits 6 quick beeps.
- 3 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 set-up. Initial startup may take several minutes to complete.
- 4 Once all three LEDs turn solid and you hear 10 quick beeps, secure the device using the provided cable tie. Ensure there is always a 20cm separation between the driver and the device. This applies to all users of the vehicle.  
**\* NOTE:** The device is considered installed when the Green and Blue LEDs turn solid.
- 5 When performing under-dash installations with an extension harness, make sure the antenna side points upwards – towards the sky for faster GPS latch times. The GPS antenna in the **GO9+** is located on the bottom of the device.



6 Navigate to [installmygps.com](https://installmygps.com) and open MyInstall (public) to verify that the device is communicating. Under **Installer Information**, enter your name and your company name, and then press **Next**. Under **Device serial number**, enter your GO device serial number, found at the bottom of the device, then press **Validate**.

7 The Device Status displays a **PASS** or **FAIL** label to indicate the status of the device. The **PASS** status indicates that the device has successfully communicated with the network in the last 24 hours. The **FAIL** status indicates that the device has not communicated with the network in the last 24 hours.

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

Press **Next** to go to the **Vehicle information** section. Enter vehicle related information such as the vehicle name, license plate, VIN, make, model, year, odometer, engine hours, work order reference, and installation comments.

8 You can manually enter the **Make**, **Model**, and **Year** fields or tap the search icon beside **VIN** to auto-populate them. If you enter the **Odometer** value, you must select a unit of measurement (km or miles). Use the **Work order reference** field to enter the work order number. Enter **Installation comments** if desired. Tap **Finish installation** to complete the installation.

\* **NOTE:** For some vehicle makes and models, the auto-populate option might not be possible.

Please see the [MyInstall User Guide](#) for more information.

The screenshot shows a web form titled "MyInstall" with a light blue header. The main content area is divided into sections by horizontal lines. The first section is "Installer Information" with a radio button icon, containing two input fields: "Installer Name" and "Installer Company". The second section is "Device serial number" with a radio button icon. The third section is "Device status" with a radio button icon. The fourth section is "Vehicle information" with a radio button icon. At the bottom of the form, there are two buttons: "Back" on the left and "Next" on the right.

## Setting up the GO9+ Wi-Fi hotspot

\* **NOTE:** Wi-Fi functionality is not available on the GP9-LTETENG version of the GO9+.

Please ensure your MyGeotab database is on the latest version of the software.

To check your version of MyGeotab, do the following:

- In MyGeotab, navigate to **Administration** in the main menu and then click **About**.
- The MyGeotab version is listed at the top of the page.

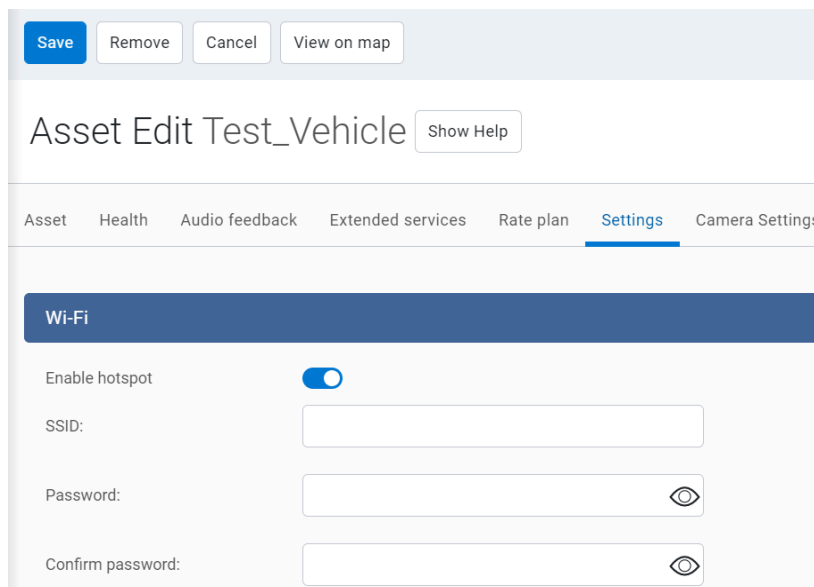
Please ensure your device is connected, communicating, and on the ProPlus + Wi-Fi rate plan, then follow the steps below to enable and connect to the Wi-Fi hotspot:

- 1 In MyGeotab, navigate to **Vehicles & Assets** in the main menu.
- 2 On the **Vehicles & Assets** page, select the desired vehicle from the list.



Name	Current driver	VIN	Licens...	Serial ...	Odome...
 <b>Test_Vehicle</b> Company group	None	3CZR06H59...	QT3P...	G9HR...	1482...

- 3 On the **Asset Edit** page, select the **Settings** tab.
- 4 Under the **Wi-Fi** drop-down menu, toggle the **Enable hotspot** toggle to On.



Save Remove Cancel View on map


### Asset Edit Test\_Vehicle [Show Help](#)


Asset Health Audio feedback Extended services Rate plan **Settings** Camera Settings

#### Wi-Fi

Enable hotspot

SSID:

Password:  

Confirm password:  

- 5 In the **SSID** field, enter a unique SSID. The information entered in this field indicates the Wi-Fi network name.



- 6 In the **Password** field, enter a unique password for the Wi-Fi network.
- 7 Click the **Save** button to save your changes.
- 8 On the desired mobile device, navigate to device settings then select the desired Wi-Fi network and enter the password.

**Note:** The Wi-Fi network name and password are the same as the information entered in Steps 5 and 6.

## Using the GO9+ Wi-Fi hotspot

**\* NOTE:** Wi-Fi functionality is not available on the GP9-LTETENG version of the GO9+.

By default, the Wi-Fi hotspot will turn off when the vehicle's ignition is turned off, and the device goes into sleep mode. You can extend this by using the **"Turn External Devices Off"** option in MyGeotab. Steps for enabling this are:

1. In MyGeotab, navigate to **Vehicles & Assets** in the main menu.
2. On the **Vehicles & Assets** page, select the desired vehicle from the list.
3. On the **Asset Edit** page, select the **Settings Wi-Fi** tab.
4. Click the **Advanced** drop-down menu and select the 'duration to keep the device alive in the "Turn External Devices Off" subsection. You can set this to immediately, 10 minutes, 1 hour or 4 hours and the Wi-Fi will stay on accordingly.

**\* NOTE:** Using this feature to keep the Wi-Fi hotspot active may lead to vehicle battery drain.

**\* NOTE:** Device hotspot will be throttled for the remainder of the month once you reach the monthly data usage limit. Functionality will still be available, but at a slower speed. You are responsible for monitoring your data usage. Geotab will not be responsible or liable for any losses or damages arising from hotspot data throttling once the monthly data usage limit is exceeded.

**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/k6Ep0w](http://goo.gl/k6Ep0w).

**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.

**NOTICE:** The EU Declaration of Conformity is available at <https://gtb.page.link/pMwn>.

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

## 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.

## Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada

## EU

Product Wireless Information

703-748 MHz: 22 dBm EIRP

832-862 MHz: 22 dBm EIRP

890-915 MHz: 22.5 dBm EIRP

1710-1785 MHz: 22.5 dBm EIRP

1920-1980 MHz: 22 dBm EIRP

2412-2472 MHz: 20.5 dBm EIRP

2500-2570 MHz: 22 dBm EIRP

## Germany

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

## Malaysia



## Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดทางเทคนิคของ กสทช.

เครื่องวิทยุคมนาคมนี้มีระดับการแผ่คลื่นแม่เหล็กไฟฟ้าสอดคล้องตามมาตรฐาน

ความปลอดภัยต่อสุขภาพของมนุษย์จากการใช้เครื่องวิทยุคมนาคมที่คณะกรรมการกิจการโทรคมนาคมแห่งชาติประกาศกำหนด



เครื่องวิทยุคมนาคมนี้ ได้รับความเห็น อนุมัติให้  
รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม  
หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช.  
เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุ  
คมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต  
วิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม  
พ.ศ. 2498



**นสทช.** | โทรคมนาคม  
กำกับดูแลพื่อประชาชน  
Call Center 1200 (InSWS)