



XAB-200

INSTALLATION GUIDE



Vehicle & Asset Trackers

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TABLE OF CONTENTS

Introduction	1
Safety Checklist	2
Hardware Description	3
Installation Requirements	6
Required Tools	7
Choose a Mounting Location	8
Secure the Device	9
Verify Installation	10
Turn on the Device	10
Find the Device in Xirgo Device Manager	10
Device Location	10
LED Behavior	11
GNSS Status	11
Modem Status	11
Configuration & Support	13
Configuration	13
Support	13
Safety Advice	14
Regulatory Information	15
FCC	15
Warning: California Proposition 65	15
IC	16
Hardware and Software Versions	16



INTRODUCTION

The XAB-200 family of battery-powered asset tracking devices use GNSS and cellular connectivity to track objects. These tracking devices can acquire information on object location, speed, direction, etc., and transfer the data via cellular network.

XAB-200 devices are designed to install easily with various options for all applications (bolted, zip-tie, or adhesive). Flexible configuration allows partners to customize functionality to meet their specific requirements. All device settings and firmware are updated remotely via over-the-air remote management. Setting templates can be created and deployed for groups of vehicles to create unique device operation based on user requirements.

With its large internal battery, XAB-200 devices can track an asset for up to 10 years (1 report per day). The integrated accelerometer, ambient light sensor, and Bluetooth® beaconing enable limitless possibilities when coupled with custom scripting. Combining with Wi-Fi® scanning opens further asset use cases, including indoor location monitoring.

This guide can be used to install the following devices within the XAB-200 family:

- XAB-201
- XAB-202

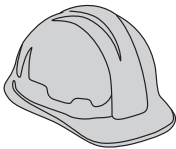
Variant	Description
XAB-201	XAB-200 tracker
XAB-202	XAB-200 tracker with mounting flanges

SAFETY CHECKLIST

WARNING: Device installation should be performed by a qualified individual or installation professional only. The procedures described here are intended as a guide only.

- **Personal Protection Equipment:** To prevent injury, please wear the following equipment at all times when working on or near the vehicle.

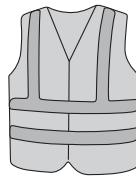
Hardhat



Steel toe shoes



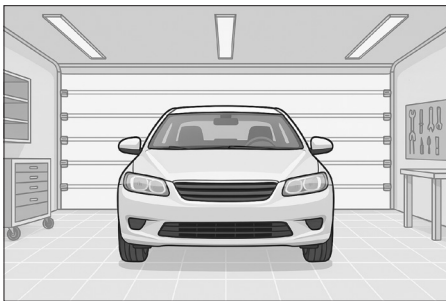
High visibility vest



Eye protection

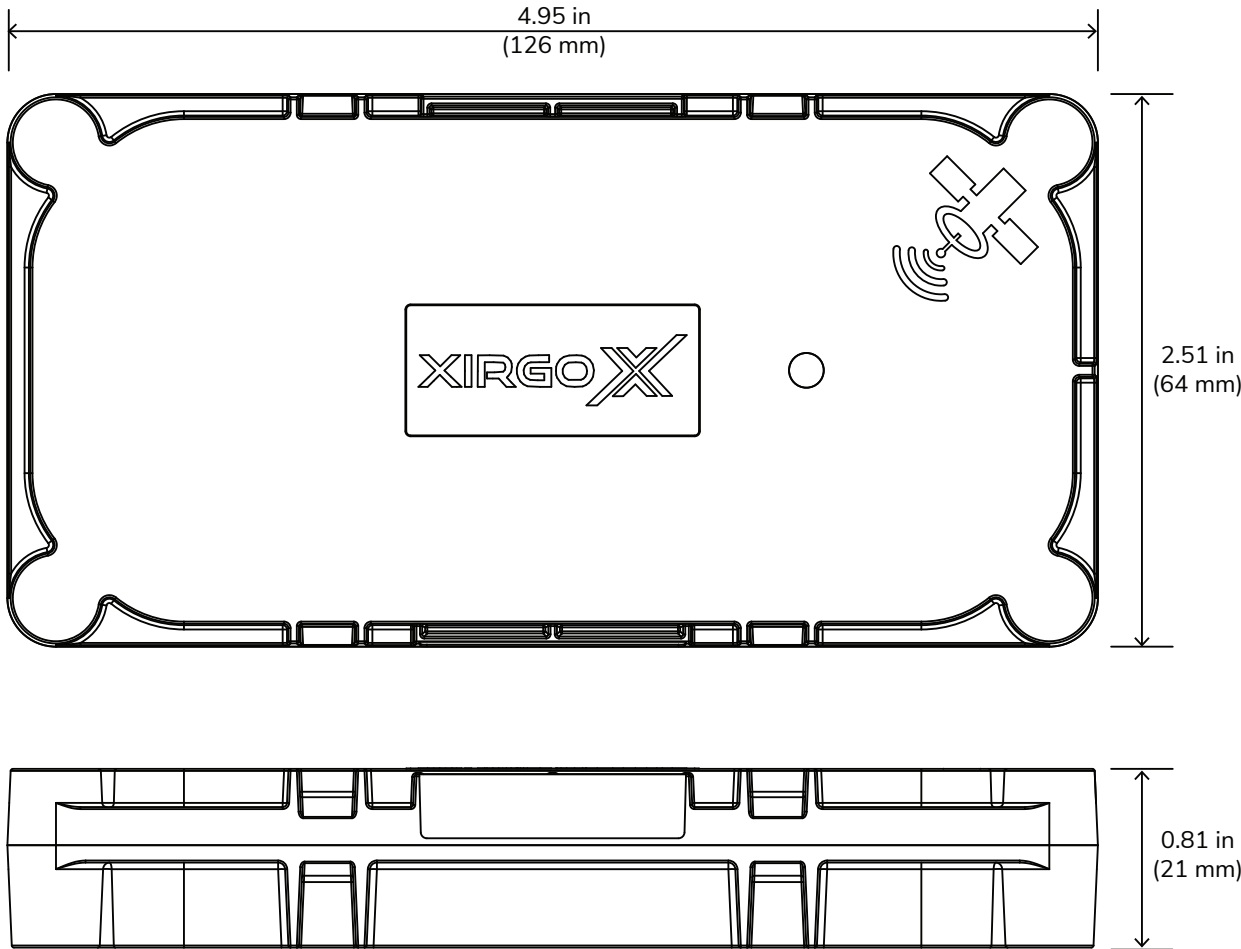


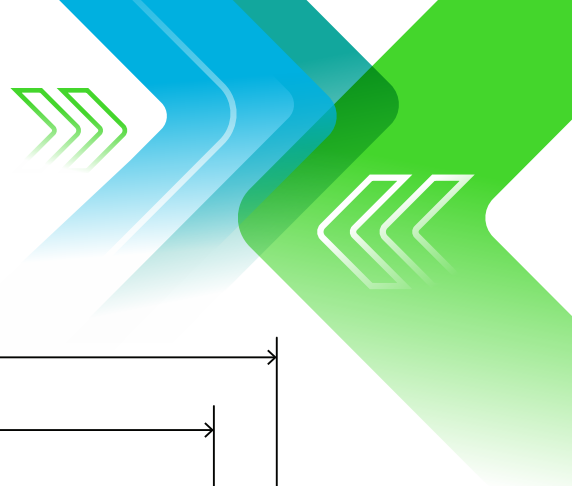
- **Site Requirements:** Place the vehicle on a flat surface in an area that is sheltered from weather (rain, snow, wind, etc.).



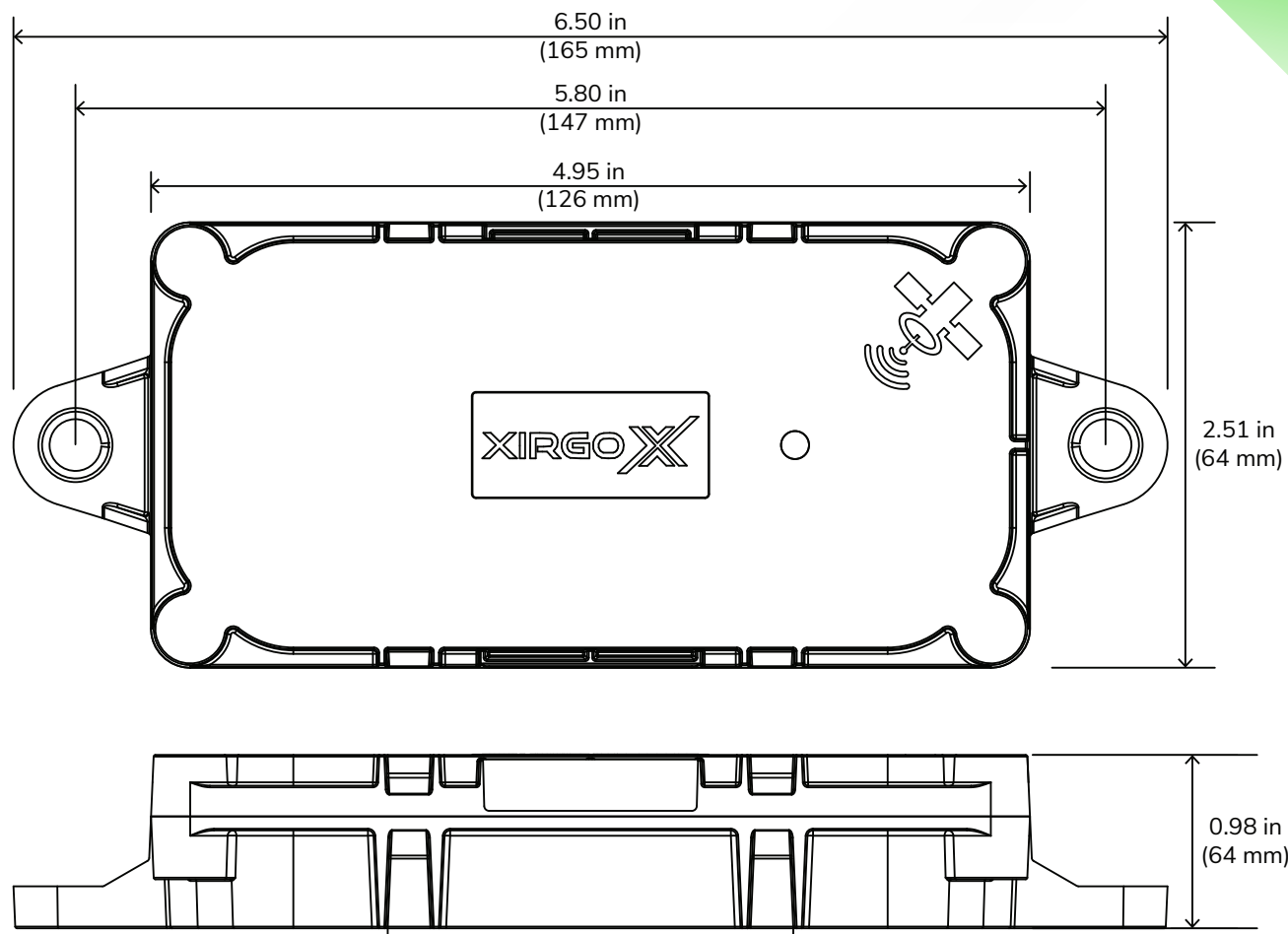
HARDWARE DESCRIPTION

XAB-201 variant



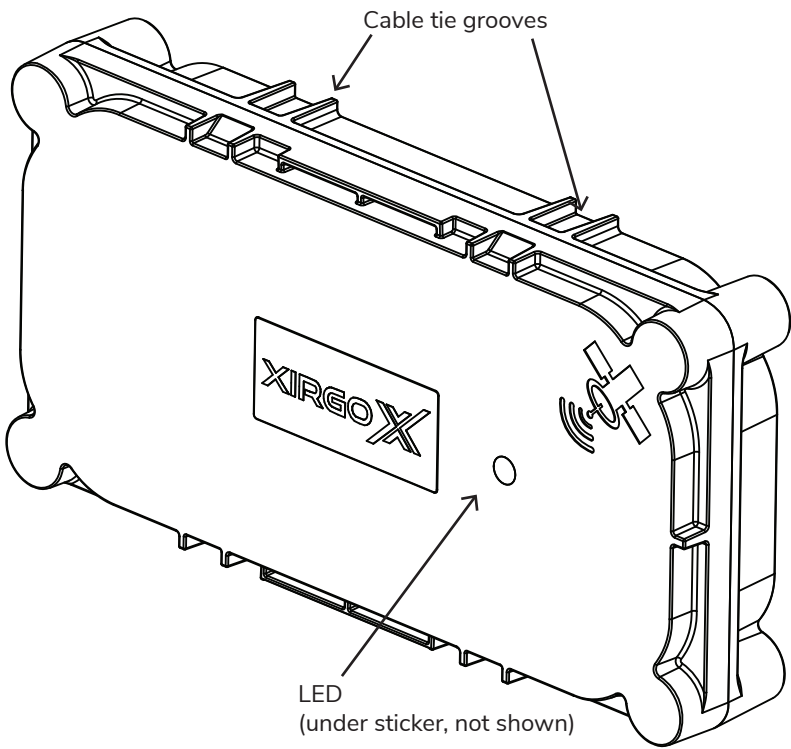


XAB-202 variant

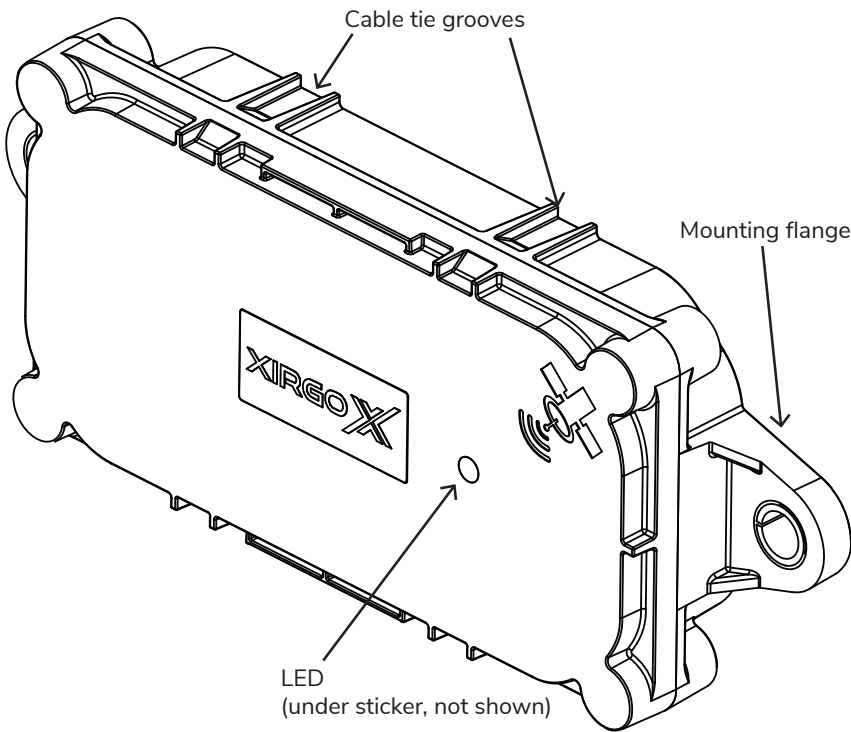




XAB-201 variant



XAB-202 variant





INSTALLATION REQUIREMENTS

- This device is intended for mounting on the interior or exterior of an asset.
- The device must be fastened in a stable location to avoid errors due to motion and vibration.
- The device should not be submerged in liquids.
- The device must be able to be installed horizontally with its top surface oriented towards the sky.



REQUIRED TOOLS

Tools used for installation of mobile electronics are required.

- Hand tools
- Drill/Impact driver
- 7/32" drill bit



CHOOSE A MOUNTING LOCATION

The device can be secured to a location with the included cable ties, 3M™ VHB™ tape, or 1/4 inch bolts (on models with a mounting flange).

Find a suitable location for installation. The unit should be installed in a horizontal position relative to the ground. Accurate alignment is essential for optimal system performance, as the device contains acceleration sensors whose readings directly influence the system's output.

Choose an installation location that supports the following requirements:

- **Reception:** The device requires access to cellular and global positioning signals to function properly. Make sure the device has clear, unrestricted access to these signals. For optimum reception, do not install the device under metal brackets or near HVAC motors.
- **Operating temperature:** The device should be installed in a location where the operating temperature does not go below from -13° F (-25° C) or exceed 140° F (60° C).



SECURE THE DEVICE

1. Place the device in the desired installation location. The device must be able to be installed horizontally with its top surface oriented towards the sky. Precise orientation is of particular importance to proper operation of the system, especially for accelerometer-based event detection.
2. Secure the device with cable ties, 3M VHB tape, or screws.

- **Cable ties**

Wrap the included cable ties in the grooves around the device and the mounting location.

- **3M VHB tape**

Note: For optimum installation, the device should be installed in a room with a minimum ambient temperature of 50°F (10°C).

- a. Use an abrasive pad and isopropyl alcohol pads to scour and clean the mounting surface.
- b. Apply primer if recommended to improve adhesive strength.
- c. Make sure all surfaces are completely dry and free of moisture before mounting the device.
- d. Remove the 3M VHB tape backing from the bottom of the device.

Note: Ensure no contaminants from hands or tools are introduced to the tape of mounting surface.

- e. Orient the device so the top surface is oriented towards the sky.
- f. Press and hold the cradle to the mounting surface for 15 seconds.

- **Screws**

If the device has a mounting flange, use the two included 1/4" self-tapping screws to secure the device to a mounting surface.

- a. Drill a 7/32" pilot hole for self-tapping screws.
- b. Use a 3/8" socket driver to drive the screws through the mounting holes and into the mounting surface. Torque the screws be 8-10 ft-lbs of torque.



VERIFY INSTALLATION

Once installation is complete, verify device operation.

Turn on the Device

Remove the yellow label from the device to activate it.

Find the Device in Xirgo Device Manager

Verify that the device reports in Xirgo Device Manager (XDM).

Device Location

Verify the GNSS location of the device in XDM.



LED BEHAVIOR

The device's LED provides diagnostic information on the device's Global Navigation Satellite System (GNSS) and modem.

GNSS Status

The LED indicates the status of the device's GNSS using short blinks of the LED. The following table describes the operation of the device's LED.

Blink Count	Definition
1	No GNSS signal
2	Poor precision (Horizontal Dilution of Precision (HDOP) less than 1.5)
3	3 satellites locked (HDOP less than 1.5)
12	12 satellites locked (HDOP less than 1.5)

Modem Status

The LED indicates the status of the device's modem using long blinks of the LED. The following table describes the operation of the device's LED.

Blink Count	Definition
1	Modem is turned on. SIM card is valid. GSM is registered. GPRS is registered. Modem is connected to the internet. Modem is connected to the server.
2	Modem is turned on. SIM card is valid. GSM is registered. GPRS is registered. Modem is connected to the internet. Modem is unable to connect to the server.
3	Modem is turned on. SIM card is valid. GSM is registered. GPRS is registered. Modem cannot connect to the internet.
4	Modem is turned on. SIM card is valid. GSM is registered. No GPRS connection.
5	Modem is turned on. SIM card is valid. GSM is not registered.
6	Modem turned on. No further action can be taken.



Blink Count	Definition
7	Device started. No further action can be taken.



CONFIGURATION & SUPPORT

Configuration

The device is configured with XDM, Xirgo's device management and configuration portal, where partners/users can adjust operation of each device to meet operational requirements and manage firmware.

Support

This device is designed and built for ease of installation and reliability. However, if you encounter difficulties while installing or using this product, technical support is available at <https://xirgo.com/contact/support/>.



SAFETY ADVICE

Caution

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.

Caution

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.



REGULATORY INFORMATION

FCC

This equipment with FCC ID: GKM-XAB-200

Variants: XAB-201, XAB-202 subject to the Federal Communications Commission (FCC) and Industry Canada (IC) rules.

Notice:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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,
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Xirgo Technologies, LLC may void the FCC authorization to operate this equipment.

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:

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

Radio frequency radiation exposure information:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warning: California Proposition 65

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.



IC

IC: 10281A-XAB200

Antenna Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the Equivalent Isotropically Radiated Power (E.I.R.P.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la Puissance Isotrope Rayonnée Équivalente (P.I.R.E.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

License exempt

This device complies with Industry Canada license-exempt RSS standard(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.

Le présent appareil est conforme aux CNR d'Industrie 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, et
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Hardware and Software Versions

HW Version: ATLAS-GL-A

SW Version: XAB-200GL-001



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