



XT53

USER GUIDE

VERSION 6 | LAST UPDATED 10/15/2025



Please read this entire guide and refer to our installation materials before using your XT53.



XT53

USER GUIDE



TABLE OF CONTENTS

Key functions.....	3
Operating modes	4
Installation instructions.....	5
Commissioning.....	5
Installation	6
Orientation and reception	7
Technical specifications.....	8
Safety advice & FCC regulations.....	9



KEY FUNCTIONS

The XT53 is an ultra-compact, cellular tracker that is fast and simple to install and requires zero maintenance.

1. Permanent battery

The XT53 features a permanent battery with up to seven years of life for extended, worry-free tracking and recovery with zero maintenance.

2. Ultra-compact design

Although the XT53 is built to withstand extreme temperatures and environments, its small size enables discreet placement in a vehicle or other asset — no hardwiring necessary.

3. Easy installation

The XT53 offers three device mounting options, which can be combined if desired:

1. Attach the magnetic base of the device to a flat, metal surface.
2. Thread zip ties through the guides on the device and securely fasten them around a stable part of the vehicle's frame.
3. Bolt down the XT53 using two 1/4" self-tapping pan or Hex head screws.

4. Reliable tracking

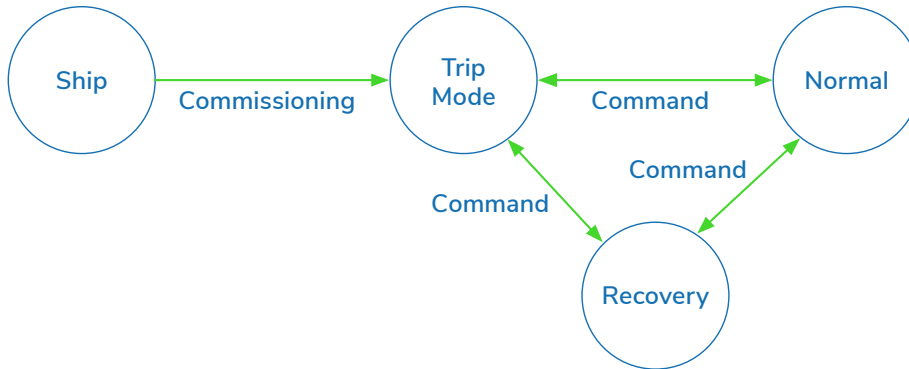
The XT53 harnesses cellular data communication and GNSS positioning for accurate tracking that is customizable and automated.

5. Multiple operation modes

The XT53 provides inventory monitoring, standard retail customer tracking and stolen vehicle tracking.

OPERATING MODES

The XT53 offers distinct operating modes that can be customized for tracking and reporting based on user requirements:



Refer to the table below for key XT53 behaviors in different modes.

NOTE: In most cases, XT53 can be moved from one to another by command.

Modes Table				
	Ship Mode	Trip Mode	Normal Mode (Default)	Recovery Mode
Description	Dormant for shipping and storage	Ideal for tracking assets and their daily movements, such as vehicles on a dealer lot	Simple location tracking for typical use cases	More frequent reporting for locating assets with urgency. Mode can automatically disable after 24 hr Default true
Cellular active	No	Yes	Yes	Yes
GNSS active	No	Yes at heartbeat interval and every trip end Configurable daily max trip limit 2, 4, 6, 8 Default 2	Yes at heartbeat interval Configurable heartbeat interval 24 hr, 12 hr, 6 hr Default 24 hr	Yes, every report 5 min reporting while in motion and at trip end
Movement detection and reporting	No	Yes, trip start on movement with 30 sec debounce and trip end at no motion for 5 mins	No	Yes, trip start on movement with 30 sec debounce and trip end at no motion for 5 mins
Battery life	N/A	Reduced depending on number of trips/day	Longest 7 years	Reduced depending on duration of recovery mode active

INSTALLATION INSTRUCTIONS



The XT53 is a reliable, stable and easy-to-install device. Please carefully read and follow these commissioning and installation instructions.

Commissioning

Commission the XT53 before installation to ensure the device is functional.

Commission the XT53 outdoors under an open sky for faster location fixes and reduced check-in time.

1. Press and hold the Push Button until the LED Status Light is solid **Green**. Then release the button.
2. The LED Status Light will flash **Blue** as it connects to the cellular network.
3. The LED Status Light will flash **Orange** as it acquires a GNSS fix. This can take more than 60 seconds.
4. The LED Status Light then flashes **Blue** as it connects to the cellular network.
5. The XT53 then enters IMS mode, and the LED Status Light displays a color according to its condition:

- Solid **Green** — LTE and GNSS connections are successful.

- Solid **Blue** — LTE only.

Note: GNSS fix may be affected by surrounding buildings, covered/underground parking structures, trees, geography or installation in a position that degrades or blocks GPS signal reception.

- Solid **Red** — LTE failure.

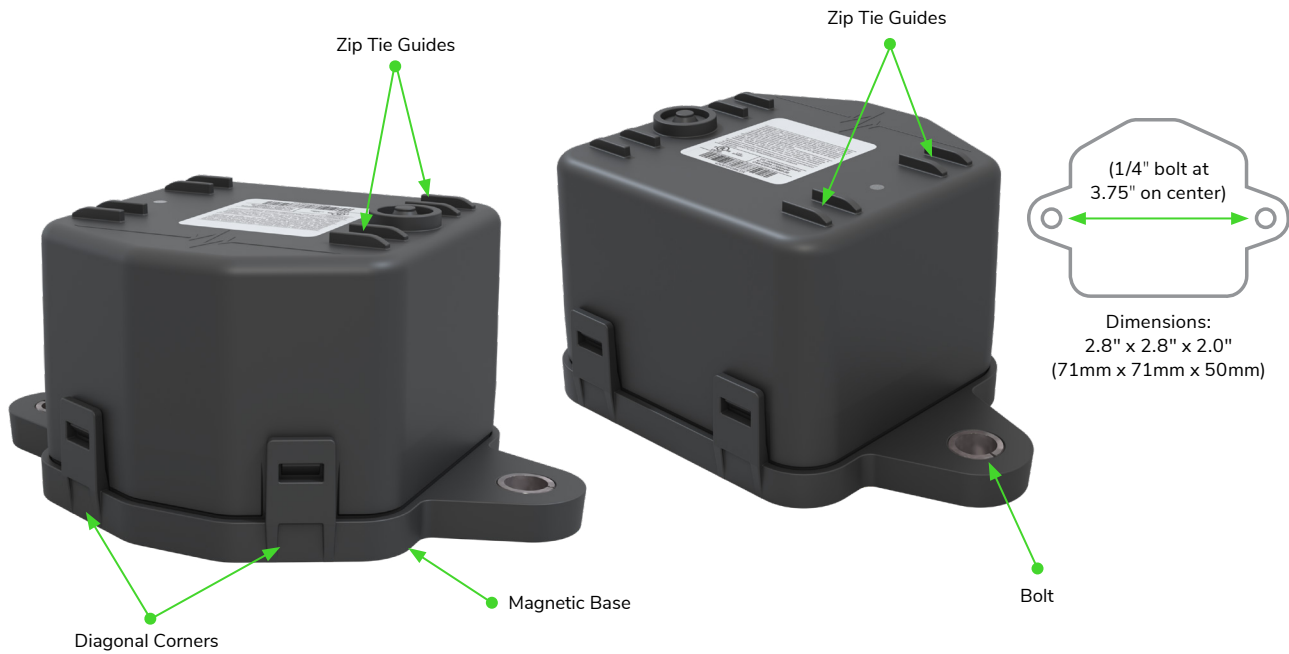
Note: Check LTE reception in the area and reposition the device if surrounded by metal. Then perform the commissioning process again.

- Blinking **White** — Device is unable to connect cloud backend and will return to Ship Mode.

After commissioning is complete, the device does not illuminate the LED Status Light while in use. Unable to get a unit to connect? Please contact Xirgo technical support at support@xirgo.com.



INSTALLATION INSTRUCTIONS



Installation

The XT53 can be installed internally or externally on the vehicle or asset. It can be performed using a magnetic base as a “third hand” for hole placement.

INTERNAL

The ultra-compact size of the XT53 enables discreet placement of the device in a vehicle. If possible, to secure the device in place, attach the device to a flat, metal surface with the magnetic base or with zip ties threaded through the guides.

- Behind the main dash
- In the trunk or glove box
- Under a seat
- Covered under upholstery

EXTERNAL

Mount the XT53 placing the base on a flat surface and attach with zip ties threaded through the guides on the device.

The XT53 can also be bolted down using two 1/4" self tapping pan or Hex head screws. It is recommended to:

- Drill a pilot hole for self-tapping screws
- Use an appropriate sized washer when installing the device.
- Ensure installation torque is between 8–10 ft/lbs.

Note: Not recommended for external surface installation without a secondary securing mechanism (zip-ties or bolts). To avoid the possibility of surface damage, consider attaching the XT53's magnetic base to a flat, metal surface.

INSTALLATION INSTRUCTIONS



IMPORTANT: Be sure to position the XT53 so that the label on the top of the device is oriented toward the sky. The diagonal corners of the device house internal antennas and should not touch metal.

Orientation and Reception

FOR THE BEST SIGNAL RECEPTION

Interior placement

1. Place the device behind the main dash, in the trunk or glove box, under a seat or covered under upholstery.
2. Position the XT53 so that its top label is oriented toward the sky.

Exterior placement

1. Attach the device to a flat, metal surface.
2. Position the XT53 so that its top label is oriented toward the sky.

RECEPTION MAY BE IMPAIRED

1. If the XT53 is mounted without orientation of its top label to the sky.
2. If the diagonal corners of the device touch metal where the internal antennas are housed.
3. On heavily overcast or cloudy days if the vehicle or asset is:
 - In a covered place such as under a bridge or raised roadway
 - In a tunnel
 - In an underground roadway or parking area
 - Inside a building or garage
 - Surrounded by high-rise buildings

If you encounter difficulties installing or using the XT53, contact technical support at support@xirgo.com.

TECHNICAL SPECIFICATIONS

XT53 TECHNICAL SPECIFICATIONS

MECHANICAL

	Dimensions: 4.5" x 2.8" x 2.0" (115mm x 71mm x 50mm)
Flange Mount Model	Weight: 8 oz (227 g)
	Mounting: Magnetic, Zip Ties, 2x Mounting Holes (1/4" bolt at 3.75" on center)
Case Material	Plastic (black)

ELECTRICAL

Power Source	Internal 19 Ah Lithium Thionyl Chloride Battery (Li-SOCL ₂)
Battery Life	7 Years Under Typical Usage and Conditions*

ENVIRONMENTAL

Operational Temperature	-30° C to +60° C (-22° F to +140° F)
IP Rating	IP67

FUNCTIONALITY

Alerts	Collision Detection While Stationary and While In Motion
Operating Modes	Inventory Management, Normal, Recovery
Reporting Frequency	Configurable by Mode
LED Indicator	Multicolor, Red/Amber/Green/Blue/White
Push Button	Instantaneous Report, Enter/Exit Shipping Mode
Internal Sensors	3-Axis Accelerometer

COMMUNICATIONS

	Communication Interfaces: 4G Cat M1
Cellular	4G Bands: 2, 4, 12
	SMS: MT/MO
	SIM Card: 4FF

POSITIONING

	Tracking Sensitivity: -160dBm
	Hot Start: 3 Seconds (open sky)
	Cold Start: 45 (open sky)
GNSS	Constellation Support: GPS
	Accuracy: <10 m (open sky)
	A-GPS: Supported

COMPLIANCE

Certifications	FCC, CE, IC, PTCRB, AT&T
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*Based on one location check-in per day.

SAFETY ADVICE & FCC REGULATIONS

FCC PART 15.19

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.

FCC PART 15.21

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.

FCC RF RADIATION EXPOSURE STATEMENT

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.

CAUTION

To reduce the risk of electric shock, do not remove the cover. There are no user-serviceable parts inside. The battery is not rechargeable and should not be removed. Refer servicing to qualified service personnel.



Please make sure you follow the safety advice/instructions given in the user guide.

CAUTION

Risk of explosion if the battery is tampered with or replaced by an incorrect type. Dispose of used batteries according to the instructions.



CAUTION

Damages due to production malfunction, loss of data or other damages occurring while using this product shall not be the responsibility of the manufacturer. In the case of an accident, the sensor may not recognize the shock when the impact is light, and as a result, it may not begin recording automatically.



CALIFORNIA PROPOSITION 65 WARNING

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



