

Square Tracker Xtreme

One tracker for indoors and out: Wi-Fi positioning inside buildings and GNSS outside, in a sealed IP68 housing that runs for over ten years without a battery change.

- Wi-Fi indoor + GNSS outdoor positioning
- 3D accelerometer · temperature
- LoRaWAN
- 4,000 mAh · 10+ years battery
- Built to last: IP68 & IK06

OVERVIEW

Square Tracker Xtreme combines Wi-Fi access-point scanning for indoors with GPS and BeiDou for outdoors. Position solving happens in the cloud, which keeps scanning short and power low. A 3D accelerometer wakes it on motion or tilt, so it reports when an asset actually moves. That suits things that move now and then, or positions on request.

The sealed housing, conformal-coated board and 4,000 mAh battery are made for wet, dusty and knocked-about places: logistics yards, construction and agricultural equipment, hospital fleets. Mount with the included screw frame, or with adhesive or cable ties. It is the tracker behind Sensative's airport asset-tracking deployment for wheelchairs, passenger transports and baggage carts.

WHY IT MATTERS

Indoors and out, one device
Wi-Fi inside and GNSS outside, so mixed environments need no separate trackers.

Built to be knocked about
IP68, IK06, sealed housing and conformal-coated electronics.

Reports when it moves
The accelerometer triggers on motion or tilt: movement alarms, and a battery that lasts over ten years.

Proven at an airport
The tracker used for wheelchairs, passenger transports and baggage carts in Sensative's airport deployment.


Square Tracker Xtreme in use

Specifications

SENSING

Sensors	3D accelerometer (motion, tilt), temperature (±2 °C)

POWER AND HOUSING

Battery	Built-in $LiMnO_2$, 4,000 mAh, 10 years at 72 positions a day
IP rating	IP68
Impact rating	IK06
Operating temp	–20 to +60 °C
Dimensions	67.2 × 60.4 × 13 mm
Weight	61 g
Mounting	Screw frame included; adhesive or cable ties through the eyelets also work

CONNECTIVITY

Positioning	GNSS (GPS & BeiDou) outdoors, 2.4 GHz Wi-Fi scanning indoors, solved in the cloud
Memory	Built-in data memory
Reporting	Motion-triggered, periodic or on request
Protocol	LoRaWAN 1.0.4, Class A, OTAA
Frequency	EU868 · US915 · AU915 · AS923-1 · AS923-2 · KR920 · IN865
Configuration	NFC (Android) and over the air; alternative VSM apps through the Hugin app or over LoRaWAN

TYPICAL USE

For bounded sites with LoRaWAN coverage and assets that cross between indoors and outdoors, where GNSS and Wi-Fi both contribute to the position.

- Airports: wheelchairs, transports and baggage carts
- Warehouses: containers, crates and trolleys
- Construction sites: tools, machines and equipment
- Hospitals: beds, pumps and fleets between buildings
- Cities: municipal equipment, from depots to streets
- Movement and tilt alarms on high-value assets

WHAT EVERY SENSOR SHARES

Years on one battery

Ultra-low-power design, and cloud-side processing where it saves energy. Battery life depends on the sensor and how often it reports: well over ten years for most sensors.

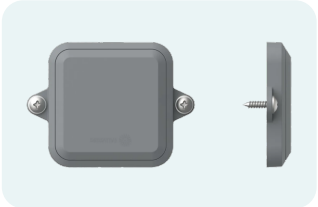
Configured over the air

Every sensor takes its settings over the air, so a change of reporting interval or threshold never means a ladder. Square, Square Xtreme, Puck and Prism can also be set up on site with an Android phone over NFC, and they run downloadable VSM apps: a sensor already on the wall can be given a new task without touching the hardware.

IN THE BOX · MOUNTING



Adhesive or cable ties



Screws, with the included frame

In the box

Square Tracker Xtreme with adhesive pre-applied, and the screw mounting frame. Mount with the adhesive, with the frame, or with cable ties through the eyelets.

Mounting

Screw frame included; adhesive or cable ties through the eyelets also work

MORE INFORMATION

Product page and downloads: sensative.com/sensors/square-tracker-xtreme
Manuals, payload decoders and integration guides: public.yggio.net/docs
Questions and quotes: sales@sensative.com · Buy: shop.sensative.com or a Sensative reseller

Specifications are subject to change without notice in the interest of continuous product improvement.