



SOLO3 One-Piece GNSS Tag



The SOLO3 one-piece GPS tag is a compact, lightweight tag that can be tracked with GNSS, cell tower, Wi-Fi, and indoor positioning signals.

Its state-of-the-art satellite receiver chip set and Assisted GPS (A-GPS) technology produces fast location fixes with high accuracy.

Key Features

- ▶ Fast multi-constellation positioning (GPS, GLONASS, Galileo, BeiDou) using latest U-blox GNSS receiver.
- ▶ Reliable backup LBS cell tower and Wi-Fi positioning.
- ▶ Option for RF location with Home Beacon (HB).
- ▶ Supports multiple, time-based tracker zones, for POI, polygon and circular area monitoring.
- ▶ Advanced movement detection with cutting edge, on-chip AI machine-learning core.
- ▶ Supports active, passive and hybrid tracking modes.
- ▶ Configurable vibration alerts for the monitored person if they are approaching a forbidden zone.
- ▶ Visual alerts with LED/light indication.
- ▶ Haptic feedback with vibration motor.
- ▶ Large memory capable of storing more than 100,000 events.
- ▶ Compatible with:
 - Home Beacon (HB)
 - Victim Tracking Unit (VTU)
 - Officer App
 - Companion App
 - Victim Mobile App.
- ▶ Detectable with a protected person's VTU over encrypted links.
- ▶ Hermetically sealed case (IP68 – waterproof to 30m).
- ▶ Unique use of Kevlar® in strap, with optional dual optic steel strap.
- ▶ Hypoallergenic material for case and strap.
- ▶ Certification includes CE approval.
- ▶ Secure AES-CMAC 128-bit encrypted communications.
- ▶ Discreet and comfortable portable charging solution.

Design





Mains Charger

Connector of mains charger →



Installation

The SOLO3 GNSS tag is installed quickly and simply using a Fitting and Installation Tool.

Each tag can be hygienically cleaned and re-used, keeping operating costs to a minimum.

Size and Weight

Light and compact design makes wearing the SOLO3 a comfortable experience.

- ▶ Dimensions:
77mm height x 29mm depth x 51mm width (excluding SOLO3 arms).
- ▶ Weight without strap only 125g.

Telecommunications

SOLO3 can communicate with the monitoring centre through various telecommunication protocols.

Protocols supported include:

- ▶ 2G
- ▶ 3G
- ▶ LTE (4G)
- ▶ Wi-Fi

Tamperers

Multiple tamper, interference and signal blocking detection features, including case open detection and fracture detection with reported alarms.

All tamperers are still monitored in low power mode for three days after the battery has discharged.

Radio communications protocols include:

- ▶ message spoofing
- ▶ radio jamming
- ▶ relay detection

Events generated are reported to the monitoring centre.

Battery

Powerful internal battery of SOLO3 has life between charges of up to 100 hours, with two charging options:

- ▶ Charging at the monitored person's home with the Mains Charger.
- ▶ Charging anywhere with the Portable Charger.

Daily charging of under two hours to maintain full charge.

Portable Charger



Portable charger slots over top of SOLO3