



Spotguard XL



Spotguard Plus



Spotguard M

[/Spotguard]

Technical Data Sheet

Spotguard is a small, battery-driven 4G - GNSS tracking device. Smart and easy to use – no assembly or wires are required.

Spotguard provides a complete overview of all your assets, securing precise and effective handling. Combining GNSS & 4G CatM1 with 2G fallback technology ensures optimal network connectivity and data collection.

Applications

- Asset tracking
- Monitor the location using accurate GNSS technology
- Motion sensor enables positioning if movement
- Small, suitable for assets of all sizes
- Advanced cellular triangulation, if no GNSS data is available
- Active RF technology enables indoor localisation
- Enable the RF beacon and track down with a Spotguard Locator

Report interval

- Fixed time interval or pre-set custom times
- Movement reports, down to 30 minutes

Installation

- No assembly or wires

Please see **Quick Start Guide** for mounting instructions.

Features

- Movement detection: 3-axis G-sensor
- RF beacon: 25 mW
- Manual Geofencing
- Accelerometer wake up
- Recovery mode
- Scheduler with time zones
- Tracking on stop / on the move
- Backup Tracking with cellular triangulation
- Time Synchronization: GNSS, Server

The intelligent 4G + 2G technology

- Ensures optimal connection
- Primarily uses 4G if available
- Switches seamlessly to 2G in remote areas
- Connects quickly when changing networks
- Connects quickly when changing countries

Battery consumption is optimized

- As the primary 4G connection uses less battery
- As hardware connects faster to the network
- As the number of retries are greatly reduced



Spotguard XL
Up to 6000 positions
IP68 - Watertight



Spotguard Plus
Up to 2400 positions
IP67



Spotguard M
Up to 1200 positions
IP33

Positioning and communication

- FDD LTE Cat M1 bands B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B71/B85
- GSM: Quad band 2G - 800/850/900/1900 MHz
- GNSS: GPS, GLONASS, GALILEO, BEIDOU, QZSS
- SBAS: WAAS, EGNOS, MSAS, GAGAN
- Assisted GNSS
- 33 Tracking channels & 99 Acquisition channels & 210 PRN channels
- Tracking sensitivity: -167 dBm
- Data protocol: UDP, SMS

Interfaces

- RF - 868 MHz
- Sensors: 3 axis G-sensor
- Internal memory: 2 MB flash
- Antennas, Internal high gain: GNSS
- LTE/GSM
- RF

Data visibility / platform

<https://onegsgroup.com/asset-manager>

<https://onegsgroup.com/digital-solutions/fleet-management/>

Physical:	Spotguard M	Spotguard Plus	Spotguard XL
Weight:	56 g	119 g	158 g
Measurement:	55 x 52 x 12 mm	83 x 80 x 25 mm	80 x 54 x 37 mm
Protection:	IP33	IP67	IP68
Number of positions:	Up to 1200	Up to 2400	Up to 6000

Battery lifetime: Battery life is extended, and the number of positions is maximized when the device is used under appropriate operating conditions with a good network connectivity.

Power: Please see the Quick Start Guide for installation advice Lithium metal batteries

Temperature range: -20°C to +60°C