GeoSmartOne®

DFM

DATASHEET : GeoSmartOne®

Product Concept

The GeoSmartOne combines high performance GPS receiver and a Semtech Lora™ transceiver making this product ideal for low-power industrial tracking applications. A vibration detector associated with proprietary low power GPS technology extends significantly battery life.

GeoSmartOne® Key Features

◆ Positioning Tracker

◆ Movement detection

◆ Designed to meet IP 67 for harsh industrial conditions

◆ Non-rechargeable battery

◆ Connects to Semtech Lora™ networks

◆ Remote control

Key Performances

◆ GPS Accuracy

◆ Long battery life time

◆ Low power consumption in stand-by

Applications

◆ Asset & Vehicle Tracking

◆ Anti-theft systems

GeoSmartOne® Functionalities

◆ Tracking mode: It allows you to make a GPS fix at a given cycle

◆ Fix on demand: You just need to know where is your device when you need it

◆ Geofencing: You can receive an alert when the device is leaving a specified zone

◆ Movement detection: It can send you an alert when the device is moving

◆ Activity rate: The product can report the number of hours of machine operation or other data with on board sensors. (on demand)

General Specification		
	Dimension	130mm x 110mm x 35mm
	Supply voltage	4.5 V
	Battery power	3LR12 - 6000 mAh
	Weight	200 g

GeoSmartOne®

Storage temperature	-40°C ~ 85°C
Operating temperature	-40°C ~ 85°C
Humidity :	10% to 90%
LORA band :	EU band - 868 MHz
LORA output power	14 dBm
GPS and Glonass band	1.575Ghz
GPS precision	< 10 m
Casing	IP65
Mouting	Screw or rivet fixing system

Function Specification	Tracking mode (GPS always ON, reporting position at regular interval)	
	Power consumption	250 mA max
	Battery life time	> 18 days
	Frequency report	60 sec
	Motion detect mode (Fast turn-up time of the GPS to report position at regular interval when moving, keep alive message when still)	
	Battery life time (1 position/day)	> 4.5 years with 3LR12 battery
	Frequency report in motion	> 6.5 yeas with ER26500 battery
	Frequency report in still	1 days

GeoSmartOne® certification

LoRa Alliance   Objenious by Bouygues Telecom