

The Oyster LoRaWAN is a rugged, waterproof GPS location device designed for tracking non-powered assets where super-long battery life is required on low-cost LoRa networks.



Cost effective battery powered asset locations for up to 5 years



...and easily switch configuration Over-The-Air including Recovery Mode

Ultra-long battery life
Compact. Simply “place ‘n trace”
Robust and weather-proof (IP67)

KEY FEATURES

- Up to 5 years once daily location
- Up to 2 years asset location reporting
- IP67 water & dust proof
- Rugged, robust and low-profile
- Integrated accelerometer
- Switch from “locate” to “track” O.T.A.
- Compact & lightweight
- Unauthorized movement alert
- Battery status & Low battery alert

WORKS FOR...

- Vehicles, Trucks & Trailers
- Boats & Jet-skis, Quad-bikes
- Traffic Signage & Lighting Rigs
- Motorbikes & Scooters
- Generators & Compressors
- Agricultural Equipment
- Shipping Containers
- Caravans & Campervans
- Mining Equipment

APPLICATIONS

- Non-powered asset tracking
- Vehicle and fleet tracking
- Shipping containers & freight
- Trailers and mobile assets
- Logistics management
- Mining & construction equipment
- Locate & recover lost equipment
- Anchoring and security of assets
- Insurance & logistics applications

Low cost, long life, IP67 GPS / GLONASS asset location



MECHANICAL FEATURES

Dimensions (inch)	L 5,4 x W 2,8 x H 1,2
Weight	0.35lbs incl. batteries
Housing	ABS/Polycarbonate plastic IP67 rated
Fitment	Screw holes & strap slots
Operating temp range	-4°F to +149°F
For extreme low temperatures. Lithium batteries must be fitted.	

POWER

Batteries	3 x AA Size, Lithium 1.5V or Industrial Alkaline
Sleep Current	10uA (micro-amps)

CONNECTIVITY

Network	LoRaWAN
Configuration	Setup by USB cable and via Over-The-Air
LoRaWAN Regions	868MHz and 915MHz

GPS TRACKING

GPS Module	High sensitivity Assisted GPS receiver, 72 channel
GPS / GLONASS	Concurrent GPS/GLONASS
Antenna with Low noise GPS amplifier	Boosted by low-noise amplifier (LNA) allows operation in "urban canyons" and container stacks

SMARTS

Movement Alert	Switch from Daily Locate to frequent Tracking over-the-air
Easy Setup	Via USB cable & over-the-air
Flexible Configuration	Highly configurable. Setup according to the usecase to maximise battery life

OTHER FEATURES

3D Accelerometer	Enables quick wake and low power operation
After Hours	Setup different behaviour for work hours vs. after hours

APPROVALS

Type	FCC, CE, ICASA, C-TICK
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IP67 Waterproof, Dustproof & Rugged

The housing is made of sturdy ABS/Polycarbonate plastic to survive bumps and knocks and is UV stabilized to survive many years in the sun, exposed to weather.

Its low-profile makes it easier to mount in the corrugation on containers or to conceal on the underside of a trailer.

No Install Required

Simply secure the device in place and begin tracking.

Adaptive Tracking

Adaptive-Tracking technology enables the accelerometer and GPS data to be used intelligently to work out if it is moving and to send frequent live updates, as well as to scale the update rate down to once per day if the asset is stationary in order to preserve battery life.



3D Accelerometer

The 3 axis accelerometer allows the Oyster to 'sleep' in an ultra-low power state yet still wake-up when movement occurs.

Easy Configuration

The Oyster LoRaWAN can have settings remotely changed over-the-air including selecting Movement Alert allowing for more frequent position updates.



Other battery powered devices in this range:



LoRaWAN™ is a Low Power Wide Area Network (LPWAN) specification intended for wireless battery operated Things in a regional, national or global network.

LoRaWAN targets key requirements of Internet of Things such as secure bidirectional communication, mobility and localization services.

Metrics The LoRaWAN specification provides seamless interoperability among smart things without the need of complex local installations and gives back the freedom to the user, developer, businesses enabling the roll out of Internet of Things.