



APPLICATIONS



Bins



Site Assets



Wagons



Trailers



Containers



Equipment

The Oyster is a low-profile, rugged GPS device designed to connect to the SIGFOX Global network for tracking non-powered assets where ultra-long battery life is required without sacrificing the frequency of updates (up to 140x /day) and performance.

- A good compromise between size and performance
- IP67 rated housing (waterproof, dustproof, rugged)
- Up to 5 years battery life
- No install/pairing required
- SIGFOX-ready device
- High performance ublox GPS with autonomous offline assist
- 3D accelerometer to detect movement and to launch GPS

FEATURES

MECHANICAL FEATURES

Housing	ABS/Polycarbonate plastic UV stabilised IP67 rated
Fitment	Screw holes & strap slots
Operating temperature range	-40°C to +85°C.

Dimensions / Weight	115 x 65 x 29mm / 190grams
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A good compromise between size and performance

height: 29mm



side: 115mm



front: 65mm



enabled by  sigfox

POWER

Battery	3x AA batteries. (Li-SOCL2 battery option for harsh environments) Designed to last 5 years with GPS tracking 1x/day, 2 years with 10x /day
Sleep Current	5uA (micro-amps)

GPS TRACKING

GPS Module	High sensitivity assisted GPS UBLOX, 72 channel receiver
GPS / GLONASS	Supports concurrent GPS and GLONASS for better & faster position fix
Antenna with Low Noise GPS Amplifier	Boosted by special low-noise amplifier (LNA) allows operation in “urban canyons” and containers. -167dBm industry leading tracking performance

SMARTS

AssistNow Offline	Predicts satellite locations - reduces the time-to-first-fix - improves performance in ‘urban canyon’ or forested environments
G-Force Events	Built-in accelerometer detects high G impacts such as accidents and drops as emergency alerts
Internal Memory	Flash up to 50,000 records. The memory is also used to store parameters, GPS aiding data, and other info securely stored

SENSORS

3D Accelerometer	SLEEP MODE in an ultra-low power state and wake-up when movement occurs. It can also detect extreme G-Force events such as an accident or abuse of the asset
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CONNECTIVITY

SIGFOX	Module with embedded protocol for operation under FCC & ANZ
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