Oyster
enabled by sigfox

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
- Available for all 4 Sigfox zones

APPLICATIONS

Bins   Site Assets   Wagons   Trailers   Containers   Equipment

www.thinxtra.com

OYSTER FEATURES

Part#: DM OYSTER RCZ1 (868Mhz 100bps Europe)
Part#: DM OYSTER RCZ2 (902Mhz 600bps USA / Canada / Mexico / Brazil)
Part#: DM OYSTER RCZ3 (921Mhz 100bps Japan / Korea)
Part#: DM OYSTER RCZ4 (920Mhz 600bps AsiaPac / rest of South America)

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

A good compromise between size and performance

height: 29mm

side: 115mm

front: 65mm

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POWER

Battery	3x AA batteries (not in cluded). (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

CONNECTIVITY

SIGFOX	Module with embedded protocol for operation under FCC & ANZ