

Oyster Sigfox

Sigfox Zones RCZ1, RCZ2, RCZ4

Ultra-rugged and long-life battery-powered Sigfox GPS tracking device for asset tracking and management



7 Years Battery Life

Powered by 3 x AA Batteries with up to 7 years battery life



Movement-Based Tracking

High-precision GPS/GLONASS tracking device tracks assets when they're on the move and enters sleep mode when stationary to save power



Ultra-Rugged

Weatherproof and ultra-rugged IP67 Housing



User-Replaceable Batteries

Uses off-the-shelf Alkaline or Lithium (recommended) batteries

Connectivity

Sigfox	Highly sensitive radio receiver available in RCZ1, RCZ2, RCZ4 versions for global Sigfox connectivity
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Batteries

User-Replaceable Batteries	3 x AA
Battery Life	Up to 7 years of battery life at once-daily position updates, 1 year battery life at once-hourly position updates. Enable intelligent movement-based tracking for longer battery life.
Supported Battery Types	Alkaline Lithium (LiFeS2) - recommended *Please dispose of Lithium batteries in a safe and responsible manner

Location

Module	uBlox MAX8
Constellation	Concurrent GPS / GLONASS
Channels	72 Channel High Sensitivity Receiver
Tracking Sensitivity	-167dBm industry-leading tracking performance
Low Noise Amplifier	GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail

Power

Input Voltage	4-6V DC
Sleep Current	<10uA* *Average current in lowest power configuration

Mechanics / Design

Dimensions	108 x 86 x 31 mm (4.25 x 3.39 x 1.22")
Weight	190 g (6.70 oz)
Housing	Ultra-Rugged Nylon Glass
IP Rating	IP67 rated housing ensures device can withstand fine dust, high-pressure spray, submersion for 30 mins in 1m of water, and extreme temperatures
Installation	Compact and concealable. Multiple installation options for covertly and easily securing the device to assets with screws, bolts, cable ties, rivets, and more.

Mechanics / Design *(continued)*

Operating Temperature	-20°C to +60°C
GPS Antenna	Internal
3-Axis Accelerometer	3-Axis Accelerometer to detect movement
Diagnostic LED	Diagnostic LED signifies operation status

Smarts

Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
Periodic or Movement-Based Tracking	Configure parameters to send updates based on set time intervals or when movement occurs. Adaptive tracking technology detects when the device is on the move and increases the update rate, providing detail when you need it while conserving battery when stationary.
Sleep Mode	Stationary devices enter sleep mode until movement occurs to conserve battery life and optimize data usage

Device Management

Flexible Configuration	Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application
Configuration App	Manage device firmware updates and parameters via a USB configuration cable and app. Some parameters can be changed via downlink.

Integration

Third-Party Integration	Device data available from Sigfox Backend
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Warranty

Manufacturer's Warranty	One year manufacturer's warranty
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Certifications

Please contact us for a full list of compliance specifications and documentation for your region.

RCZ1 – Sigfox Certified, ICASA, CE (Doc)
RCZ4 – Sigfox Certified, ACMA (DoC), CE (Doc)