

Rugged GPS tracker with 10+ years battery life and Bluetooth® gateway

pTag Remora is an ultra-rugged GPS asset tracker and Bluetooth® 5.2 Gateway built for extreme performance and durability. With up to 10+ years of battery life on movement-based tracking or 2 years of second-by-second reporting, it's ideal for aggressive monitoring.

It operates flawlessly in extreme temperatures and is powered by off-the-shelf Lithium Thionyl Chloride (LTC) batteries. The device conserves power by entering sleep mode when stationary and provides battery alerts to ensure seamless operation.

Encased in a weatherproof IP68, IK07-rated housing, the Remora also features magnetic tamper detection and supports LTE-M/ NB-IoT connectivity for reliable data transmission.

KEY FEATURES AND BENEFITS

High Precision GPS

Concurrent GPS, GLONASS, Galileo, QZSS, and Beidou positioning systems are used simultaneously for enhanced accuracy and faster fixes.

Bluetooth® Gateway

Bluetooth® 5.2 Gateway for affordable tagged asset management and sensor monitoring applications.

Rugged & Weatherproof

Ultra-rugged and waterproof IP68 and IK07-rated housing ensure the Remora can withstand impact, fine dust, and brief submersion.

Battery Life

Off-the-Shelf Batteries. Powered by 2 x D Cell Lithium Thionyl Chloride (LTC) batteries for enhanced temperature operation (-30°C to +60°C).

Battery Life Monitoring

Battery Meter with 'Battery Low' and 'Battery Critical' alerts.

Wire-Free Installation

Compact and concealable. Multiple installation options for covertly and quickly securing the device to assets with screws, bolts, cable ties, rivets, and more.

Magnetic Tamper Detection

A magnetic tamper switch instantly alerts you if the device is removed from your asset.

Flexible Configuration

Configure device parameters such as heartbeat rate, movement and accelerometer settings, and more to fit any tracking application.



REMORA HARDWARE FEATURES

- 'Deploy Once' Battery Life 10+ years
- Bluetooth® gateway
- Magnetic Activation & Tamper Detection
- Periodic or Movement-Based
- <2 m GPS accuracy and 4G connectivity.
- Rugged design. IP68 IK07 and works from -30 to +60° C.

Periodic or Movement-Based

Adaptive tracking technology detects when the device is moving and increases the update rate, providing details when you need them while conserving battery energy when stationary.

Impact Detection

Configure impact-detection alerts when a user-defined threshold exceeds g-forces.

Run Hour Monitoring

Capture run hours based on movement to understand and optimise asset utilisation.

Tip Detection & Rotation Counting

Axis angle reporting, tip detection and rotation counting.

Theft Recovery

Switch to Recovery Mode for theft or loss to activate real-time tracking for asset retrieval.

Technical specifications

CONNECTIVITY

Cellular Module: LTE-M / NB-IoT (supports roaming between networks – roaming SIM required).

Nordic nRF9160 Modem operates on all major global LTE-M and NB-IoT bands.

Supported LTE bands: LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B66

NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66

Bluetooth® 5.2 Gateway: Bluetooth 5.2 gateway reports nearby Bluetooth tags and sensors for affordable tagged asset management and sensor monitoring

SIM Size & Access: Internal Nano 4FF SIM

LOCATION

GNSS Module: SONY CXD5612

Constellation: Concurrent GPS, GLONASS, Galileo, QZSS, Beidou

Tracking Sensitivity: -149dBm cold start / -163dBm hot start

*Location Accuracy ~1m 2D RMS, GPS, -130dBm

GNSS Assistance: GNSS almanac and ephemeris data for greater sensitivity and position accuracy

Low Noise Amplifier: GPS signals are filtered and boosted by a SAW filter and low-noise amplifier (LNA) allowing operation where other units fail

Cell Tower Location: Cell tower location fallback for positioning when GPS can't get a fix

* Positioning accuracy specifications are provided by the GNSS supplier and reflect ideal conditions. Device configuration, installation, environmental conditions, augmentation services, and many other factors may lead to variations in positioning accuracy.

POWER

Input Voltage: 5-16V DC

Sleep Current: <10uA*

*Average current in lowest power configuration

Safety: Reverse Polarity Protection and Fuse Protection

Batteries: User-Replaceable Batteries. 2 x D Cell (3.7V per cell). Batteries not included.

Supported Battery Types: Lithium Thionyl Chloride (LTC)

*Please dispose of Lithium batteries in a safe and responsible manner

*Battery Life Estimates

Once Daily location updates – 20 years

**Movement-Based location updates – 10 years

Hourly location updates – 10 years

* Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more.

** Movement-based estimates are based on 2 hours of movement, occurring 5 days a week, with default tracking parameters (location updates every 3 minutes and uploads every 30 minutes). Devices can be configured to provide more frequent location updates when the asset is in motion.

DESIGN

Dimensions: 222 x 91 x 41 mm

Weight: 430g

IP/IK Rating: Ultra-rugged and waterproof IP68 and IK07-rated housing ensures the Remora3 can withstand impact, fine dust, and brief submersion

Installation: Compact and concealable. Multiple installation options for covertly and easily securing the device to assets with screws, bolts, cable ties, rivets, and more. Stainless steel screws provided.

Operating Temperature: -30°C to +60°C

Cellular Antenna: Internal

GPS Antenna: Internal

3-Axis Accelerometer: 3-Axis Accelerometer to detect movement, high G-force events, and more

Diagnostic LED: Diagnostic LED indicates operation status

Flash Memory: Store weeks of records if device is out of cellular coverage. Storage capacity for over 20 days of continuous 30-second logging.

Onboard Speed and Heading: Current speed and heading is reported with each position update

Onboard Temperature: The device reports internal temperature which provides an indication of ambient temperature but may not always be precise

WARRANTY

Manufacturer's Warranty: Two-year manufacturer's warranty. Exclusions apply.

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