

# REMORA3

Cellular LTE-M (Cat-M1) / NB-IoT



- High-performance, high-precision GPS asset tracking device
- Powered by 2 x D user-replaceable batteries with 10+ years battery life
- Highly accurate outdoor location tracking with GNSS and Cell Tower location
- Supports aggressive 'second-by-second' tracking performance including highly accurate speed, run hour, and odometer monitoring
- Bluetooth® 5.2 Gateway for tagged asset management and sensor monitoring
- Intelligent power management and low battery alerts
- Magnetic tamper detection



'Deploy Once'  
Battery Life



Ultra-Rugged  
& Waterproof



Outdoor  
Location



Highly  
Configurable



Future Proof  
Connectivity



White-Label  
& Integration  
Ready

## Asset Visibility & Recovery

Monitor location and movement with the option to activate real-time tracking in case of loss or theft.

## Adaptive Tracking

Automatically adapt reporting rate when asset is mobile or stationary to conserve battery life.

## Asset Utilization

Measure operational hours of asset to optimize utilization and reduce downtime.

## Geofence Alerts

Receive notification if asset enters or exits designated locations.

## BLE Tag & Sensor Monitoring

Integrate with any third-party Bluetooth accessory for customizable sensor and condition monitoring.

## Impact, Tip & Rotation

Configure alerts for high impacts (g-force), asset tipping, or rotations.

## Track Longer with Industry-Leading Battery Life

Location Updates	1 x Daily	1 x Hourly	Movement-Based**
Estimated Battery Life*	20 Years	10 Years	10 Years

## SUPPLY CHAIN & LOGISTICS | TRAILERS | FLEET MANAGEMENT | EQUIPMENT | CONTAINERS | & MORE

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

\*\* Devices can be configured to provide more frequent location updates when the asset is in motion. Movement-based estimates are based on 2 hours of movement daily, 5 days a week.

This device is designed, developed, and manufactured by Digital Matter. For more information, please visit our website at [digitalmatter.com](https://digitalmatter.com).

## Connectivity

Cellular Module	<p>Nordic nRF9160 operates on all major global LTE-M and NB-IoT bands.</p> <p>Supported LTE bands:</p> <p>LTE-M (Cat-M1): B1, B2, B3, B4, B5, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B66</p> <p>NB-IoT (Cat-NB1/NB2): B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66</p>
Bluetooth®	Bluetooth 5.2 gateway reports nearby Bluetooth tags and sensors for affordable tagged asset management and sensor monitoring.
SIM Size and Access	Internal Nano 4FF SIM

## Location

GNSS Module	Sony CXD5605
Environment	Outdoor
Constellations	Concurrent GPS, GLONASS, Galileo, BeiDou
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	Sends cell tower data when GNSS signal is unavailable.
Location Accuracy*	~2m CEP

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

## Power

User-Replaceable Batteries	2 x D (3.6V per cell). Batteries not included.
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Supported Battery Types	Lithium Thionyl Chloride (LTC) Battery selection is very important. <a href="#">Follow this link to learn more.</a> Please dispose of Lithium batteries in a safe and responsible manner.
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Battery Life Estimates*	Once Daily location updates – 20 years Movement-Based location updates** – 10 years Hourly location updates – 10 years
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Sleep Current	<10uA Average current in lowest power state.
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\* Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, battery selection, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more. Battery life calculators are available at [support.digitalmatter.com](https://support.digitalmatter.com).

\*\* Movement-based estimates are based on 2 hours of movement, occurring 5 days a week, with default trip 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 which will impact battery life.

## Mechanics / Design

Dimensions	222 x 91 x 41 mm (8.74 x 3.58 x 1.61 in)
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Device Weight	460g with Lithium Thionyl Chloride batteries.
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Housing	Non-branded nylon glass housing is suitable for white labeling.
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IP/IK Rating	Ultra-rugged and waterproof IP68 and IK07-rated housing ensures the device can withstand impact, fine dust, and brief submersion.
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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.
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External Magnet	Removal of magnet enables tamper detection.
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Temperature Range	Operating: -30°C to +60°C Recommended Storage: 10°C to 30°C, Humidity 30%. Store in a cool, dry place.
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Cellular Antenna	Internal
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GPS Antenna	Internal
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3-Axis Accelerometer	3-Axis accelerometer to detect movement, high-g events, and more.
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Diagnostic LED	Diagnostic LED indicates operation status.
Flash Memory	Store records if device is out of cellular coverage. <a href="#">View storage capacity here.</a>
Onboard Speed and Heading	Current speed and heading is reported with each position update.
Onboard Temperature	Provides ambient temperature but may not be suitable for precise temperature logging purposes.

## Smarts

Adaptive 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.
Battery Life Monitoring	'Battery Low' and 'Battery Critical' alert levels.
Geofencing	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations. Geofences can also be downloaded directly to the device for enhanced location-based actions and alerts. <a href="#">View storage capacity here.</a>
Impact Detection	Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold.
Rotation Counting	Keeps a count of the number of rotations of the device.
Run Hour Monitoring	Capture run hours based on movement to understand and optimize asset utilization.
Sleep Mode	Stationary devices enter sleep mode until movement occurs to conserve battery life and optimize data usage.
Tamper Detection	External magnet provides an alert if the device is removed from your asset.
Theft Recovery	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking for asset retrieval.
Tip Detection	Define a range of angles that constitutes a 'tipped' state and configure alerts.

## Device Management

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Flexible Configuration	Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application.
Device Management Platform	Manage, monitor, configure, debug, update, and restart devices remotely from our <a href="#">cloud-based device management system</a> .
Configuration App	Configurable with DM-Link provisioning tool.

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## Integration

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Third-Party Integration	TCP Direct or HTTPS Webhook
API	Command and configure the device via rich API functionality.

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## Security

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Data Security	Military-grade AES-256 Encryption from device to Device Manager to protect the integrity and confidentiality of your data. Data forwarded to third-party systems is sent via HTTPS for end-to-end security.
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## Warranty

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Manufacturer's Warranty	Two-year manufacturer's warranty. <a href="#">Exclusions apply.</a>
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## Certifications

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Please view our knowledge base for [regulatory and network certifications](#).

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