



Remora3

LTE-M / NB-IoT

Ultra-rugged, long-life battery-powered GPS asset tracking device and Bluetooth® Gateway featuring 10+ years of battery life and tamper detect - **longest-lasting battery-powered device on the market**



'Deploy Once' Battery Life

Over 10+ years battery life movement-based tracking, 2 years at most aggressive (second-by-second) tracking performance

Bluetooth® 5.2 Gateway

Reports on nearby Bluetooth tags and sensors for affordable tagged asset management and sensor monitoring applications

User-Replaceable Batteries

Uses off-the shelf 2 x D Lithium Thionyl Chloride (LTC) batteries for extreme temperature operation

Adaptive Tracking

Periodic or optional movement-based tracking - tracks assets throughout the day and/or when movement occurs, entering sleep mode when inactive to conserve power and data usage

Battery Life Alerts

Battery Meter with "Battery Low" and "Battery Critical" alerts

Tamper Detect

Magnetic Tamper Detect

Ultra-Rugged

IP67 rated housing ensures the device can withstand fine dust, high-pressure spray, and submersion for 30 minutes in 1m of water

Connectivity

LTE-M / NB-IoT	Nordic nRF9160 Modem operates on all major global LTE-M and NB-IoT bands. Supported LTE bands:
(supports roaming between networks - roaming SIM required)	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

Batteries

User-Replaceable Batteries	2 x D Cell (3.7V per cell)
Supported Battery Types	Lithium Thionyl Chloride (LTC) *Please dispose of Lithium batteries in a safe and responsible manner
Battery Life	Once Daily location updates – 10+ years Movement-Based location updates – 10+ years Hourly location updates – 10+ years

Location

GNSS Module	Sony CXD5605
Constellation	Concurrent GPS, GLONASS, Galileo, QZSS
Tracking Sensitivity	-147 dBm cold start / -161 dBm hot start
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

Power

Input Voltage	5-16V DC
Sleep Current	<10uA* *Average current in lowest power configuration
Safety	Reverse Polarity Protection and Fuse Protection

Mechanics / Design

Dimensions	224 x 91 x 41 mm (8.82 x 3.58 x 1.61")
Weight	430g
Housing	Ultra-Rugged IP67 Housing. Non-branded housing for optional white-labeling.
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. 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 27 days of continuous 30-second logging.
On-Board Speed and Heading	Current speed and heading is reported with each position update
On-Board Temperature	The device reports internal temperature which provides an indication of ambient temperature but may not always be precise

Smarts

Auto-APN	Auto-APN allows the device to analyze the SIM card and select the correct APN details from a list that is pre-loaded in the device's firmware
Battery Life Monitoring	Battery Meter with "Battery Low" and "Battery Critical" alert levels
Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
Geofence Download to Device	Geofences can be downloaded directly to the device for enhanced location-based actions and alerts. Maximum of 500 Geofences with up to 100 points per geofence.
Impact Detection	Configure impact-detection alerts when G-forces are exceeded by a user-defined threshold
Intelligent Power Management	Early registration abort and location scan throttling options
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.
Preventative Maintenance	Set reminders based on distance traveled and run hours to reduce maintenance and repair costs
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 Alerts	Magnetic tamper switch provides an instant 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 & Rotation Counting	Axis angle reporting, tip detection and rotation counting (planned)

Device Management

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 cloud-based device management system
Configuration App	Configurable with DMLink Provisioning tool

Integration

Third-Party Integration	TCP Direct or HTTPS Webhook
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Security

Data Security	Military-level AES-256 Encryption from device to Device Management Platform to protect the integrity and confidentiality of telematics data. Data forwarded to third-party systems is sent via HTTPS for end-to-end security.
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Warranty

Manufacturer's Warranty	Two-year manufacturer's warranty
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Certifications

Please visit support.digitalmatter.com for a full list of compliance specifications and documentation for your region
