

BARRA RECOVERY

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



- Ultra-low power recovery device stays in standby until needed
- Trigger Rapid Recovery Mode to activate full GNSS, Wi-Fi access point scanning, cell tower scanning, and RF beaconing for location
- Integrated 433 MHz radio transmitter enables last-mile retrieval via directional finding with a third-party handheld receiver
- Intelligent power management with cloud-based location solving and low battery alerts
- Powered by 2 x AA user-replaceable batteries with 10+ years battery life
- Magnetic activation and tamper detection



'Deploy Once'
Battery Life



Ultra-Rugged
& Waterproof



Indoor/Outdoor
Asset Retrieval



Highly
Configurable



Future Proof
Connectivity



White-Label
& Integration
Ready

10+ Years Standby Mode

Operates in deep sleep with ultra-low power draw, enabling over 10 years of standby time until activation.

Last Mile Recovery

Integrated RF beaconing provides location to the storage unit, container, or floor for recovery.

Rapid Recovery Mode

Quickly transitions from standby to active tracking when Recovery Mode is triggered remotely.

Direction Finding

Supports physical retrieval using directional handheld receivers.

Indoor/Outdoor Location

Combines GNSS, Wi-Fi access point scanning, and cell tower scanning data for positioning both indoors and outdoors.

Impact Detection

Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold.

Track Longer with
Industry-Leading
Battery Life

Estimated Battery
Life*

Standby Mode

10+ Years

LAST MILE RECOVERY | SECURITY SERVICES | LAW ENFORCEMENT | INSURANCE & 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, accelerometer settings, and more.

This device is designed, developed, and manufactured by Digital Matter. For more information, please visit our website at digitalmatter.com.

Connectivity

Cellular Module	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, 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
SIM Size and Access	Internal Nano 4FF SIM

Location (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

Location (Indoor)

Wi-Fi Location Scanning	Indoor asset location using Wi-Fi access point scanning.
Cloud-Based Solver	Asset location is resolved using Digital Matter’s Location Engine.
Location Accuracy*	Wi-Fi Scanning: ~10m-100m with Wi-Fi in urban areas.

* 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.

Short Range Beaconing

Beacon Type	433MHz Radio Transmitter
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Power

User-Replaceable Batteries	2 x AA. Batteries not included. Widely available at most hardware or retail locations. Pre-provisioning services available with batteries installed at the factory before shipment. Contact us to learn more.
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Supported Battery Types	Lithium Battery selection is very important. Follow this link to learn more. Please dispose of batteries in a safe and responsible manner.
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Battery Life Estimates*	10+ Years in Standby Mode
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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, accelerometer settings, and more. Battery life calculators are available at support.digitalmatter.com.

Mechanics / Design

Dimensions	149 x 51 x 21 mm (5.9 x 2 x 0.8 in)
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Device Weight	107g with Energizer Ultimate Lithium 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 quick activation and 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
Wi-Fi Antenna	Internal
3-Axis Accelerometer	3-Axis accelerometer to detect movement, high-g events, and more.
Diagnostic LED	Diagnostic LED indicates operation status.
Flash Memory	Store records if device is out of cellular coverage. View storage capacity here.
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

Battery Life Monitoring	'Battery Low' and 'Battery Critical' alert levels.
Impact Detection	Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold.
Magnetic Activation	Removal of the magnet can be used to activate the unit, enabling the pre-provisioning of SIM cards and batteries.
Standby Mode	Toggle between Standby Mode and Tracking Mode to change device behavior. In Standby Mode, the device functions as a covert recovery tracker and does not report GPS locations until remotely activated. In Tracking Mode, the device operates as a standard battery-powered tracker, providing GPS location updates.
Tamper Detection	External magnet provides an alert if the device is removed from your asset.
Rapid Recovery Mode	Trigger Rapid Recovery Mode to activate full GNSS, Wi-Fi access point scanning, cell tower scanning, and RF beaconing for location.

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](#).

Integration

Third-Party Integration

Integration-ready with any third-party end platform.

API

Command and configure the device via rich API functionality.

Security

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.

Warranty

Manufacturer's Warranty

Two-year manufacturer's warranty. [Exclusions apply](#).

Certifications

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