



LTE-M / NB-IoT

Ultra-rugged and compact Indoor/Outdoor asset tracker. Features cloud-based location solving for 10+ years of battery life.





) Indoor/Outdoor

GNSS, Wi-Fi AP MAC Address Scanning, and Cell Tower location fallback for seamless indoor/ outdoor asset management



(4) 'Deploy Once' Battery Life

Over 10+ years battery life on only 3 x AAA user-replaceable batteries



Cloud-Based Location

Position calculations are handled in the cloud (versus on-device) for substantial power savings



Adaptive Tracking

Periodic or optional movementbased 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 Low" and "Battery Critical" alerts



نُظْ: Ultra-Rugged

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

Connectivity

| 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 |
|--|---|
| SIM Size & Access | Internal Nano 4FF SIM |

Batteries

| User-Replaceable Batteries | 3 x AAA |
|----------------------------|--|
| Supported Battery Types | Alkaline Lithium (LiFeS2) – Lithium recommended for best performance *Please dispose of Lithium batteries in a safe and responsible manner |
| Battery Life | Once Daily location updates – 10+ years Movement-Based location updates – 4 years Hourly location updates – 2 years |

Location

| Chipset | Semtech LR1110 |
|----------------------|--|
| Constellation | Concurrent GPS and BeiDou |
| Cloud-Based Solver | Asset location is calculated in Digital Matter's Location Engine |
| Tracking Sensitivity | -134 dBm autonomous / -141 dBm aided |
| GNSS Assistance | GNSS almanac 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 fallback for positioning when there is no GNSS or Wi-Fi signal |
| Wi-Fi Positioning | Indoor asset location using Wi-Fi access point scanning (device does not connect to Wi-Fi) |

Power

| Input Voltage | 3-5.5V DC |
|---------------|--|
| Sleep Current | <10uA* *Average current in lowest power configuration |

Mechanics / Design

| Dimensions | Standard - 85 x 63 x 24 mm (3.35 x 2.48 x .94") Livestock Collar - 109 x 60 x 30 (4.29 x 2.36 x 1.18") Snap Housing (Smallest Size, not IP67 rated) - 75 x 45 x 25 mm (2.95 x 1.77 x 0.98") |
|------------|---|
| Weight | Standard - 82 g (2.9 oz) |
| Housing | Ultra-Rugged IP67 Housing. Non-branded housing for optional white-labeling. |

Mechanics / Design (continued)

| 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. Collar housing available for securing device to livestock. |
| Operating Temperature | -30°C to +60°C - for operation in extreme temperatures use Lithium Batteries |
| Cellular Antenna | Internal |
| GPS Antenna | Internal |
| Wi-Fi 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 5 days of continuous 30-second logging. |
| Speed and Heading | Scanning technology used on the Yabby Edge does not return speed and heading |
| 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 |
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| Battery Life Monitoring | "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 |
| 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 |
| 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 |

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 | HTTPS Webhook |
|-------------------------|---|
| Cloud-Based Solver | Digital Matter's Location Engine makes it easy to perform cloud-based position solving and integrate data into any system |
| Configuration App | Configurable with DMLink Provisioning tool |

Security

| Data Security | Military-level AES-256 Encryption from device to OEM Server 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

Certifications

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