BARRA CORE





- Lowest-cost, high-performance Indoor/Outdoor asset tracking device
- Powered by 2 x AA user-replaceable batteries with 10+ years battery life
- Indoor/Outdoor location based on Wi-Fi Access Point and Cell Tower scanning data
- Intelligent power management with cloud-based location solving and low battery alerts
- Magnetic activation and tamper detection













'Deploy Once' Battery Life

Ultra-Rugged & Waterproof

Indoor/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.

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Asset Utilization

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

Adaptive Tracking

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

Geofence Alerts

Receive notification if asset enters or exits designated locations.

Impact Detection

Configure alerts when g-forces exceed a user-defined threshold.

Wire-Free Installation

Multiple installation options for securing device to asset or concealing within.

Track Longer with Industry-Leading Battery Life

| Location Updates | 1 x Daily | 1 x Hourly | Based** |
|-------------------------|-----------|------------|-----------|
| Estimated Battery Life* | 10 years | 3 years | 4.5 years |

LOGISTICS | PALLETS & CARGO | TROLLEYS | TOOLS | EQUIPMENT | BINS & 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.

Connectivity

| Cellular Module | The Quectel BC660K-GL is a high-performance NB-IoT (NB2) module which supports multiple frequency bands of: B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B28/B66/B70/B85 |
|---------------------|---|
| SIM Size and Access | Internal Nano 4FF SIM |

Location

| Chipset | Semtech LR1110 |
|-------------------------|---|
| Environment | Indoor/Outdoor |
| Wi-Fi Location Scanning | Indoor asset location using Wi-Fi access point scanning. |
| Cell Tower Location | Cell tower fallback for positioning when there is no Wi-Fi signal. |
| Cloud-Based Solver | Asset location is resolved using Digital Matter's Location Engine. |
| Location Accuracy* | ~10m-100m with Wi-Fi in urban areas ~250m-1km Cell Tower Geolocation - dependent on number of nearby towers |

^{*} 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 AA. Batteries not included. Widely available at most hardware or retail locations. |
|----------------------------|--|
| Supported Battery Types | Lithium Battery selection is very important. <u>Follow this link to learn more.</u> Please dispose of Lithium batteries in a safe and responsible manner. |
| Battery Life Estimates* | Once Daily location updates – 10 years Movement-Based location updates** – 4.5 years Hourly location updates – 3 years |

| Sleep Current | <10uA |
|---------------|--|
| | Average current in lowest power state. |

^{*} 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.

Mechanics / Design

| Dimensions | 149 x 51 x 21 mm (5.9 x 2 x 0.8 in) |
|----------------------|---|
| Device Weight | 98g with Energizer Ultimate Lithium batteries. |
| Housing | Non-branded nylon glass housing is suitable for white labeling. |
| IP/IK Rating | Ultra-rugged and waterproof IP68 and IK07-rated housing ensures the device 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. |
| External Magnet | Removal of magnet enables quick activation and tamper detection. |
| Temperature Range | Operating: -30°C to +60°C |
| | Recommended Storage: 10°C to 30°C, Humidity 30%. Store in a cool, dry place. |
| Cellular 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. |

^{**} 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.

| Speed and Heading | Scanning technology used on this device does not return speed or heading. |
|-------------------------|--|
| 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. |
| 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. |
| Magnetic Activation | Removal of the magnet can be used to activate the unit, enabling the pre-provisioning of SIM cards and batteries. |
| 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. |

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 <u>cloud-based device management system</u> . |
| Configuration App | Configurable with DM-Link provisioning tool. |

Integration

| Third-Party Integration | HTTPS Webhook |
|-------------------------|--|
| 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. |
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Warranty

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

Please view our knowledge base for <u>regulatory certifications</u>. Network certifications considered upon request.