

TG tracking

YabbyEDGE

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



'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 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 Low" and "Battery Critical" alerts



Ultra-Rugged

Ultra-rugged and weatherproof IP68, IK06 Housing

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. <i>Batteries not included.</i>
Supported Battery Types	Lithium (LiFeS2) – Lithium recommended for best performance *Please dispose of Lithium batteries in a safe and responsible manner
**Battery Life Estimates	Once Daily location updates – 10+ years Movement-Based location updates – 3.5 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 - 84 x 63 x 24 mm (3.31 x 2.48 x 0.94") 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	Non-branded housing for optional white-labeling

Mechanics / Design *(continued)*

IP/IK Rating	Ultra-rugged and waterproof IP68 and IK06-rated housing ensures the Yabby Edge 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. Collar housing available for securing device to livestock.
Operating Temperature	-30°C to +60°C
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
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 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	LTE-M / NB-IoT - FCC, ISED, UKCA, CE, ICASA, AMCA RCM, EMC, RoHS, PTCRB, AT&T, US Cellular
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**Battery life estimates are influenced by several factors including temperature, installation and orientation of the device, the frequency of location updates, network coverage, sensor integrations, peripherals, accelerometer settings, and more. Estimated battery life calculators are available at support.digitalmatter.com.