

YabbyEDGE

Cellular 4G/5G 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



Low Cost

Low cost to support large-scale deployments.



Multiple Housing Options

Snap, Livestock Collar, and ultra-covert Shipping Container Vent Housing options.

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sales@homeofiot.com.au

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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 (optional extra).</i>
Supported Battery Types	Energizer Ultimate Lithium* (LiFeS ₂) recommended for best performance *Please dispose of Lithium batteries in a safe and responsible manner
Battery Life Estimates ** (using Energizer Lithium batteries)	Periodic location updates: 24-hourly 10+ years Periodic location Updates: 3-hourly ~5 years Movement-Based location updates ¹ ~3 years ¹ Based on in-trip conditions of 2-min fix logs, 30-min batch uploads, 1 hr/day, 7 days/week ** 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 .

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	<10 uA (average current in lowest power configuration)

Mechanics / Design

Dimensions	Standard:	84 x 63 x 24 mm
	Livestock Collar:	109 x 60 x 30 mm
	Snap Housing:	75 x 45 x 25 mm (Smallest Size, not IP67 rated)
Weight	Standard:	82 g
Housing Material	Nylon Glass	

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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 signifies 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 direction
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 analyse 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 travelled and run hours to reduce maintenance and repair costs
Run Hour Monitoring	Capture run hours based on movement to understand and optimize asset utilisation
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

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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

Warranty	Two-year manufacturer's warranty <i>plus additional two-year half price replacement IOTrack warranty</i>
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Certifications

Certifications	FCC, ISED, UKCA, CE, ICASA, AMCA RCM, EMC, RoHS, PTCRB, AT&T, US Cellular Please visit Digital Matter Support Homepage for a full list of compliance specifications and documentation for your region
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Optional Housings



Livestock Collar Housing



Snap Housing

Shipping Container
Vent Housing

Size Comparison



For more details see manufacturer's website [Digital Matter](#) and device page [Yabby Edge](#)

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