



FEATURES



Low power, multi-technology geolocation device with GNSS (GPS/ BeiDou) and WiFi Scanning for seamless Indoor-to-Outdoor asset management



Cloud-based Location Calculations



Weatherproof and ultra-rugged IP67 Housing



Powered by 2 x AAA Batteries with up to 12 years battery life



Accelerometer for Smart Movement Based Tracking



Optional Collar Housing available for securing device to animals

Yabby Edge LoRaWAN®

ALL 868 OR 902-928MHZ LORAWAN® REGIONS SUPPORTED

Indoor/Outdoor asset tracker with up to 12 years battery life in a small rugged housing. Features Semtech's latest geolocation solution the LR1110.

APPLICATIONS



Indoor / Outdoor Asset Location



Pallets and Inventory



Kegs and Returnables



Trolleys, Carts, Containers



Medical Equipment



Livestock

CONNECTIVITY

LoRaWAN®	Highly sensitive radio transceiver is available in 868, or 902 – 928 MHz versions.
LORAWAN® REGIONS	AU915 AS923-1 AS923-2 AS923-3 EU868 IN865 KR920 RU864 US915

BATTERIES

USER-REPLACEABLE BATTERIES	2 x AAA
BATTERY LIFE	Up to 12 years of battery life at once-daily position updates, 3 years battery life at once-hourly position updates. Enable intelligent movement-based tracking for longer battery life.
SUPPORTED BATTERY TYPES	Alkaline Lithium (LiFeS2) - recommended

LOCATION

CHIPSET	Semtech LR1110
CONSTELLATION	GPS and BeiDou
CLOUD-BASED SOLVER	Asset location is calculated using Semtech's Cloud-Based solver and optionally Digital Matter's Location Engine for simple integration.
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 boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail.
WIFI POSITIONING SYSTEM	Indoor asset location using Wifi Positioning Systems.

POWER

INPUT VOLTAGE	2-3.6V 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 - 88 g (3.10 oz)
HOUSING	Ultra-Rugged IP67 Housing
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	-20°C to +60°C
GPS ANTENNA	Internal
RF ANTENNA	Internal
WIFI ANTENNA	Internal
3-AXIS ACCELEROMETER	3-Axis Accelerometer to detect movement and high G-force events.
DIAGNOSTIC LED	Diagnostic LED signifies operation status.

SMARTS

IMPACT DETECTION	Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold.
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.
SLEEP MODE	Stationary devices enter sleep mode until movement occurs to conserve battery life and optimize data usage.

DEVICE MANAGEMENT

FLEXIBLE CONFIGURATION	Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application.
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INTEGRATION

THIRD-PARTY INTEGRATION	Easy integration with comprehensive documentation and a flexible and open payload format.
CLOUD-BASED SOLVER	Digital Matter's Location Engine makes it easy to perform the cloud based position solving and integrate data into any system. Cloud-based solving may also be performed in user's own platform.

SECURITY

DATA SECURITY	LoRaWAN networks use AES-128 Encryption so your data is protected.
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WARRANTY

MANUFACTURER'S WARRANTY	One year manufacturer's warranty.
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CERTIFICATIONS

Please contact us for a full list of compliance specifications and documentation for your region.	Coming Soon
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Yabby Edge LoRaWAN®

View more devices at www.digitalmatter.com