



FEATURES



High-precision GPS/GLONASS tracking device



Weatherproof and ultra-rugged IP67 Housing with compact and ergonomic design



Optional Collar Housing available for securing device to animals



Powered by 3 x AAA Batteries with up to 3 years battery life



Accelerometer for Smart Movement Based Tracking

Yabby LoRaWAN®

ALL 868MHZ, 915MHZ & 923MHZ LORAWAN® REGIONS SUPPORTED

OVERVIEW

Tiny, lightweight and ultra-rugged battery-powered LoRaWAN® GPS tracking device for asset tracking.

APPLICATIONS



Asset Tracking



Livestock/Animal Tracking



Theft Recovery

CONNECTIVITY

LoRaWAN®	Highly sensitive radio receiver is available in 868, 915 and 923MHz versions for global LoRaWAN® connectivity.
LoRaWAN® REGIONS	AU915 AS923 EU868 IN865 KR920 RU864 US915

BATTERIES

USER-REPLACEABLE BATTERIES	3 x AAA
BATTERY LIFE	Up to 3 years of battery life at once-daily heartbeats.
SUPPORTED BATTERY TYPES	Alkaline Lithium (LiFeS2) - recommended

LOCATION

MODULE	uBlox EVA-M8
CONSTELLATION	Concurrent GPS / GLONASS
CHANNELS	72 Channel High Sensitivity Receiver
TRACKING SENSITIVITY	-167dBm industry-leading tracking performance
LOW NOISE AMPLIFIER	GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail.

POWER

INPUT VOLTAGE	4-6V DC
SLEEP CURRENT	<10uA* *Average current in lowest power configuration

MECHANICS/DESIGN

DIMENSIONS	L 85 x W 63 x H 24 mm
WEIGHT	97g
HOUSING	ABS Polycarbonate Plastic
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
3-AXIS ACCELEROMETER	3-Axis Accelerometer to detect movement.
DIAGNOSTIC LED	Diagnostic LED signifies operation status.

SMARTS

GEOFENCING	Create custom geofences and alerts if an asset enters or leaves specific locations.
PERIODIC OR MOVEMENT-BASED	Configure parameters to send updates based on set time intervals (1x, 3x, 5x a day, etc) 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, switching the update rate to only once per day until movement occurs to conserve battery life and optimize data usage.

DEVICE MANAGEMENT

FLEXIBLE CONFIGURATION	Configure device parameters such as heartbeat rate, movement and accelerometer settings, and more to fit any tracking application.
CONFIGURATION APP	Manage device firmware updates and parameters via a USB configuration cable and app. Some parameters can be changed via downlink.

INTEGRATION

THIRD-PARTY INTEGRATION	Easy integration with comprehensive documentation and a flexible and open payload format.
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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.	915MHz - FCC, ISED, ACMA (DoC), CE (Doc) 868MHz - ACMA (DoC)
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Yabby LoRaWAN®

Questions: support@calchipconnect.com

TECH SPECS