



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 GPS

CELLULAR 2G OR 4G LTE-M / NB-IOT

OVERVIEW

Tiny, lightweight and ultra-rugged battery-powered GPS tracking device with up to 3 years of battery life for asset tracking and theft recovery.

APPLICATIONS



Asset Tracking



Livestock/Animal Tracking



Theft Recovery



Run Hours Monitoring



Preventative Maintenance

CONNECTIVITY

2G	2G: SARA-G350-02S-01 850/900/1800/1900 MHz
4G LTE-M / NB-IoT	uBlox SARA-R410M Modem operates on all major global LTE-M and NB-IoT bands. Supported LTE bands: 1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 26*, 28 (*roaming bands)
SIM SIZE & ACCESS	Internal Nano 4FF SIM

BATTERIES

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

LOCATION

MODULE	uBlox EVA-M8
CONSTELLATION	Concurrent GPS / GLONASS
CHANNELS	72 Channel High Sensitivity Receiver
TRACKING SENSITIVITY	-167dBm industry-leading tracking performance
ASSISTNOW OFFLINE	GNSS aiding data (such as ephemeris, time, coarse position) for a faster Time To First Fix (TTFF).
LOW NOISE AMPLIFIER	GPS signals are boosted by a unique low-noise amplifier (LNA) allowing operation where other units fail.
CELL TOWER LOCATION	Cell tower fallback for positioning when GPS fails.

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	101g
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
CELLULAR ANTENNA	Internal
3-AXIS ACCELEROMETER	3-Axis Accelerometer to detect movement and high G-force events.
DIAGNOSTIC LED	Diagnostic LED signifies operation status.
FLASH MEMORY	Store weeks of records if device is out of cellular coverage. Storage capacity for over 10 days of continuous 30-second logging.

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.
GEOFENCING	Create custom geofences and alerts if an asset enters or leaves specific locations.
GEOFENCE DOWNLOAD TO DEVICE	Geofences can be downloaded directly to the device from Telematics Guru for enhanced location-based actions and alerts. Maximum of 100 Geofences with up to 100 points per geofence.
IMPACT DETECTION	Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold.
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.
PREVENTATIVE MAINTENANCE	Set reminders based on distance traveled and run hours to reduce maintenance and repair costs.
THEFT RECOVERY	Switch to Recovery Mode in the case of theft or loss to activate real-time tracking at 30-second intervals for asset retrieval.
RUN HOUR MONITORING	Capture run hours based on movement to understand and optimize asset utilization.
SLEEP MODE	Stationary devices enter sleep mode, switching the update rate to only twice 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.
OEM SERVER	Manage, monitor, configure, debug, update, and restart devices remotely from our cloud-based device management system.

INTEGRATION

THIRD-PARTY INTEGRATION	Webhook, TCP or HTTPS, Direct and Data Splitting Integration Options
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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

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.	4G - FCC, ISED, ACMA (DoC), VERIZON, CE (Doc) 2G - ICASA, CE (Doc)
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Yabby GPS

View more devices at www.digitalmatter.com

To purchase, visit www.LoneStarTracking.com

TECH SPECS