

# IQGT LoRaWAN®

All 902-928MHz LoRaWAN®  
regions supported

Next generation of our best-selling IQGT series -  
Ultra-rugged battery-powered GPS asset tracking  
device for LoRaWAN® networks featuring 10 years  
battery life (4x battery life of Oyster LoRaWAN)



## 'Deploy Once' Battery Life

Over 10+ years battery life on user-replaceable 3 x AA Lithium or Lithium Thionyl Chloride (LTC) batteries for extreme temperature operation



## 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 Monitoring

Periodic battery status uplinks give a breakdown of power use



## Ultra-Rugged

Ultra-rugged and weatherproof IP68, IK07 Housing

# Connectivity

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LoRaWAN	Highly sensitive radio transceiver is available in a single multiband device. All 902 - 928 MHz supported
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LoRaWAN Regions	AU915 AS923-1 AS923-2 AS923-3 AS923-4 EU868 IN865 KR920 RU864 US915
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# Batteries

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User-Replaceable Batteries	3 x AA. <i>Batteries not included.</i>
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Supported Battery Types	Alkaline *Lithium (LiFeS2) *Lithium Thionyl Chloride (LTC) *Lithium or LTC recommended for best performance. Please dispose of Lithium batteries in a safe and responsible manner.
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**Battery Life Estimates	Once Daily location updates – 10+ years Movement-Based location updates – 5 years Hourly location updates – 2 years
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# Location

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GNSS Module	Sony CXD5605
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Constellation	Concurrent GPS, GLONASS, Galileo, QZSS
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Tracking Sensitivity	-147dBm cold start / -161dBm hot start
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*Location Accuracy	~1m 2D RMS, GPS, -130dBm
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Low Noise Amplifier	GPS signals are filtered and boosted by a SAW filter and low-noise amplifier (LNA) allowing operation where other units fail
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LoRaWAN Gateway Geolocation Fallback	LoRaWAN gateway geolocation fallback when there is no GNSS
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# Power

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Input Voltage	4-15V DC
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Sleep Current	<10uA* *Average current in lowest power configuration
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Safety	Reverse Polarity Protection
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## Mechanics / Design

Dimensions	108 x 86 x 30 mm (4.25 x 3.39 x 1.18")
Weight	180g
Housing	Non-branded housing for optional white-labeling
IP/IK Rating	Ultra-rugged and waterproof IP68 and IK07-rated housing ensures the IQGT LoRaWAN 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. Stainless steel screws supplied.
Operating Temperature	-30°C to +60°C - for operation in extreme temperatures use LTC batteries
GPS Antenna	Internal
RF Antenna	Internal
3-Axis Accelerometer	3-Axis Accelerometer to detect movement
Diagnostic LED	Diagnostic LED indicates operation status
On-Board Speed & Heading	Current speed and heading is reported with each position update

## Smarts

Battery Life Monitoring	Periodic battery status uplinks give a breakdown of power use
Geofence Alerts	The server can use device location to create geofences and alerts if an asset enters or leaves designated locations
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
Theft Recovery	Reduce or minimize asset loss and theft
Tip Detection and Rotation Counting	Axis angle reporting, tip detection and rotation counting (planned)

## Device Management

Flexible Configuration	Configure device parameters such as position update rate, movement and accelerometer settings, and more to fit any tracking application
Configuration App	Manage device firmware updates and parameters via DMLink provisioning tool. Some parameters can be changed via downlink.

# Integration

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Third-Party Integration

Easy integration with comprehensive documentation and a flexible and open payload format

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# Security

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Data Security

LoRaWAN® networks use AES-128 Encryption so your data is protected

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# Warranty

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Manufacturer's Warranty

Two-year manufacturer's warranty

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# Certifications

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Please visit [support.digitalmatter.com](http://support.digitalmatter.com)  
for a full list of compliance specifications  
and documentation for your region

FCC, ICASA, CE, UKCA, ACMA

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\* Positioning accuracy specifications are provided by the GNSS supplier and reflect ideal conditions. Device configuration, installation, environmental conditions, augmentation services, and many other factors may lead to variations in positioning accuracy.