Cypod

CyTag™
Secure Wireless IOT Environmental and Proximity Tag

Compact low power multi functional IOT tag with up to 5 year battery life

Features

REAL TIME IDENTIFICATION AND LOCATION OF GOODS
Remotely identify asset contents and current location

LONG LIFE BATTERY
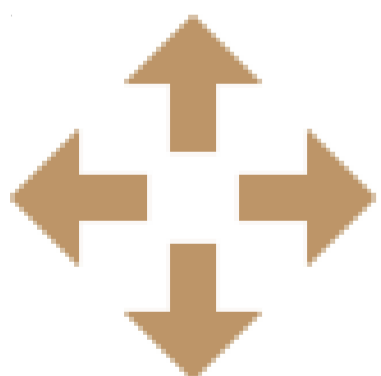3-5 year battery life depending on use case

MONITOR ASSET ENVIRONMENTAL CONDITIONS IN REAL TIME
Temperature, Humidity, shock, light, pressure, air quality and others sensor types

CONFIGURABLE ALARM PARAMETERS
Set critical alarm parameters and notifications for service dispatch

MOVEMENT DETECTION AND TRACKING
Immediate notification of unauthorized movement

REAL TIME TRACKING
Live asset tracking within zones equipped with Cypod CyNode or other third party BLE beacons

DATA SECURITY
All data collected from CyTag is encrypted at the sensor level

Product Description

The CyTag™ is a compact rugged IOT asset tag that is ideal for monitoring and tracking environmentally sensitive assets that are in storage, under transport or on display at a shop or in a museum. Various asset types can be monitored whether it be at an individual level, a pallet or an entire shipping container.

The CyTag™ asset tag is wireless and runs on a long life replaceable battery. The tag can be customized to include which sensor types are desired dependant on the asset type being monitored. Accurate Temperature, humidity, shock, pressure, light and air quality measurements are all possible with CyTag™.

Data collected and processed with the CyTag™ is secured through hardware data encyption ensuring data security down to the sensor level.

The CyTag™ requires a gateway connection to send its data to the Cypod backend for data visualization. For outdoor applications, the Cypod CyCollector™ should be used and for indoor applications, the Cypod CyNode™ shall be used.

For data visualization the Cypod IOT Management Software provides a front end dashboard which provides the means for asset and device management and data visualization. An API is available for integration of sensor and location data directly into an ERP or logistics management platform.
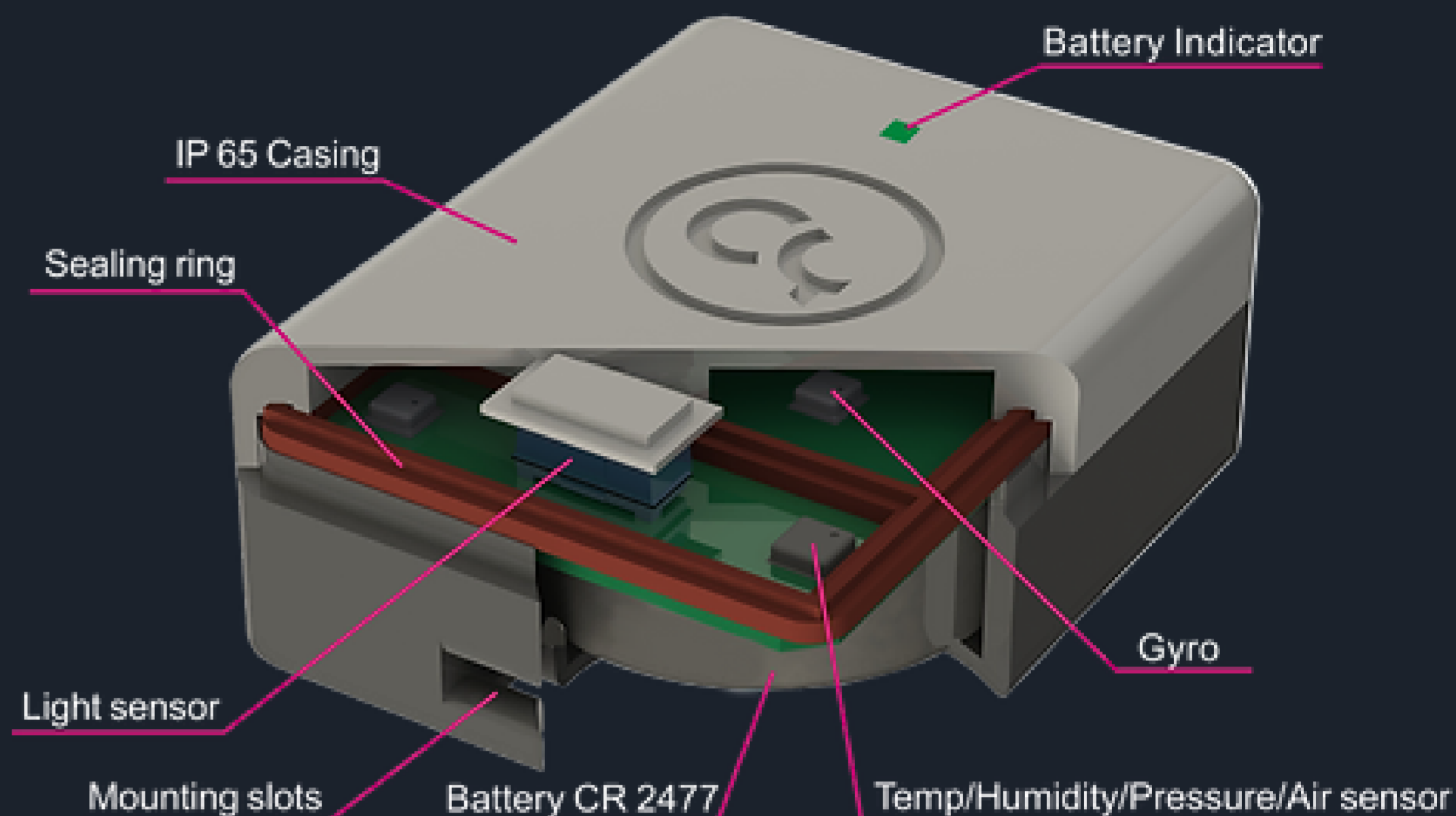
The CyTag™ is available in two versions:

CyTag™: A small robust disposable wireless sensor tag providing two way communication enabling real time identification of goods and its location, temperature, humidity, pressure and movement detection.

CyTag™ Plus: An enhanced version of the CyTag™, providing additional sensing capabilities for Air Quality and Light.

CyTag™

Use Cases and Technical Specifications

- Rugged IP65 class casing

- Mounting slots for affixing to assets

- Battery Charge status indicator

- Various sensor options available

- Bluetooth 5 communication

- Long life replaceable battery

Reduce Food and Perishable Spoilage

Reduce Theft and Mishandling of High Value Assets

Manage Inventory, Contents and Location

Use Cases

The CyTag™ can be used in an abundance of use cases from monitoring Cold Chain assets in storage or in transit, to protecting valuable assets in storefronts or museums, or equipment and assets in warehouses or storage. Thousands of assets can be monitored and tracked in real time through one centralized IOT platform.

Technical Specification

Type	Specification
Dimensions	L 38.9mm X W 30.1mm X H15mm
Weight	22 grams
Casing Protection	IP65 rated
Operational/Storage Temperature	-35 C /+75C	-31F /167F ¦ -40C / +85C |-40F / 185F
Operational/Storage Humidity	Humidity 5-95% RH Non Condensing
Operating Voltage	+5VDC
Battery	1000 mAH Coin CR2477
Communication	BLE 5
Memory	FLASH Memory IC 64Mbit
Sensor Types	
Temperature	-40 to 85°C ±0.5°C accuracy
Humidity	0-100% ±3% Relative
Pressure	300-1100 hPa
Air Quality	Ethane, Isoprene, 2-Methl-1, 3 Butadiene, Ethanol, Acetone, Carbon Monoxide
Light	Ambient: 16-bit dynamic range for ambient light detection from 0 lx to about 167 lx with resolution down to 0.005 lx/ct
Accelometer	Acceleration range: ±2g/±4g/±8g/±16g
Positioning	BLE RTLS when used with CyNode or CyCollector

www.cypodsolutions.com   PN: 19033DS R02