



CyTag™

Secure Wireless IoT Environmental and Proximity Tag

Compact low power multi-functional IoT Tag with up to 1-3 years battery life



Features



REAL-TIME IDENTIFICATION OF GOODS

Remotely identify asset contents



LONG LIFE BATTERY

1-3 years battery life depending on the use case



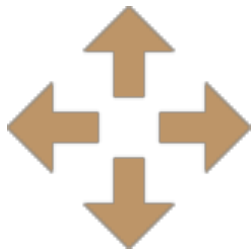
MONITOR ASSET ENVIRONMENTAL CONDITIONS IN REAL-TIME

Temperature, Humidity, shock, light, pressure, air, quality, and other sensor types



CONFIGURABLE ALARM PARAMETERS

Set critical alarm parameters and notifications for service dispatch



MOVEMENT DETECTION

Immediate notification of unauthorized movement



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 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 depending 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 encryption 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.

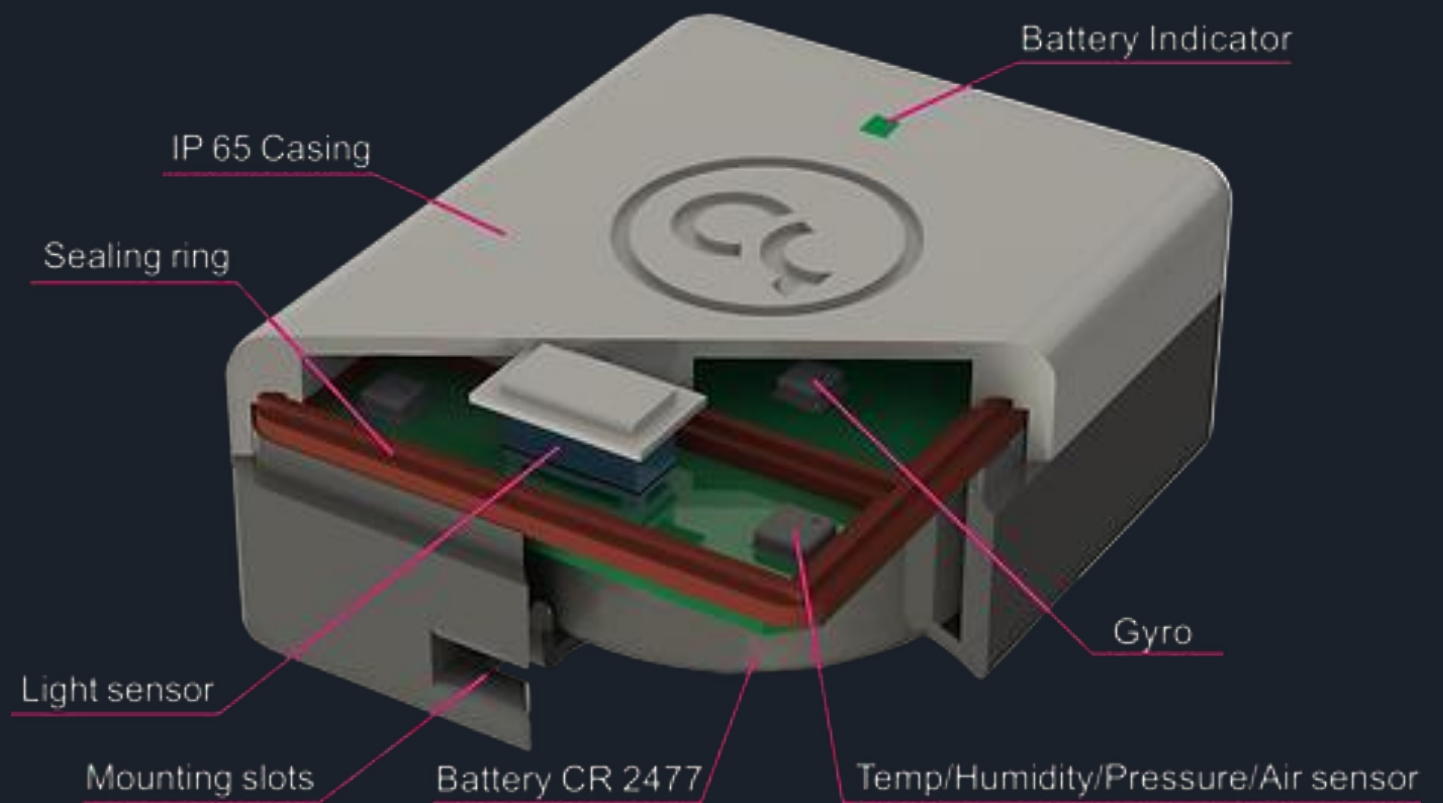
For data visualization, the Cypod IoT Management Software provides a front-end dashboard that provides the means for asset and device management and data visualization. An API is available for the integration of sensor data directly into an ERP or logistics management platform.

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, temperature, humidity, pressure, and movement detection.


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

- 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 Environmental Conditions

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 in real-time through one centralized IoT platform.

Technical Specification

Type	Specification
Dimensions	L 38.9 mm X W 30.1 mm X H 15 mm.
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	+3 VDC
Battery	1000 mAh Coin CR2477
Communication	BLE 5
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
Accelerometer	Acceleration range: ±2g/±4g/±8g/±16g
Positioning	BLE RTLS when used with CyNode or CyLock
Security	AES-128: Encrypt/Decrypt