

# 2KM LoraWAN

## Temperature Eartag User Manual

# WE-HCBL38



**Long-distance**  
**+ Low-power consumption**  
**+ Wide coverage**



OEM/ODM



2-4KM Long Range



Step-Counting



More Accurate on  
Temperature



3yrs Lifetime

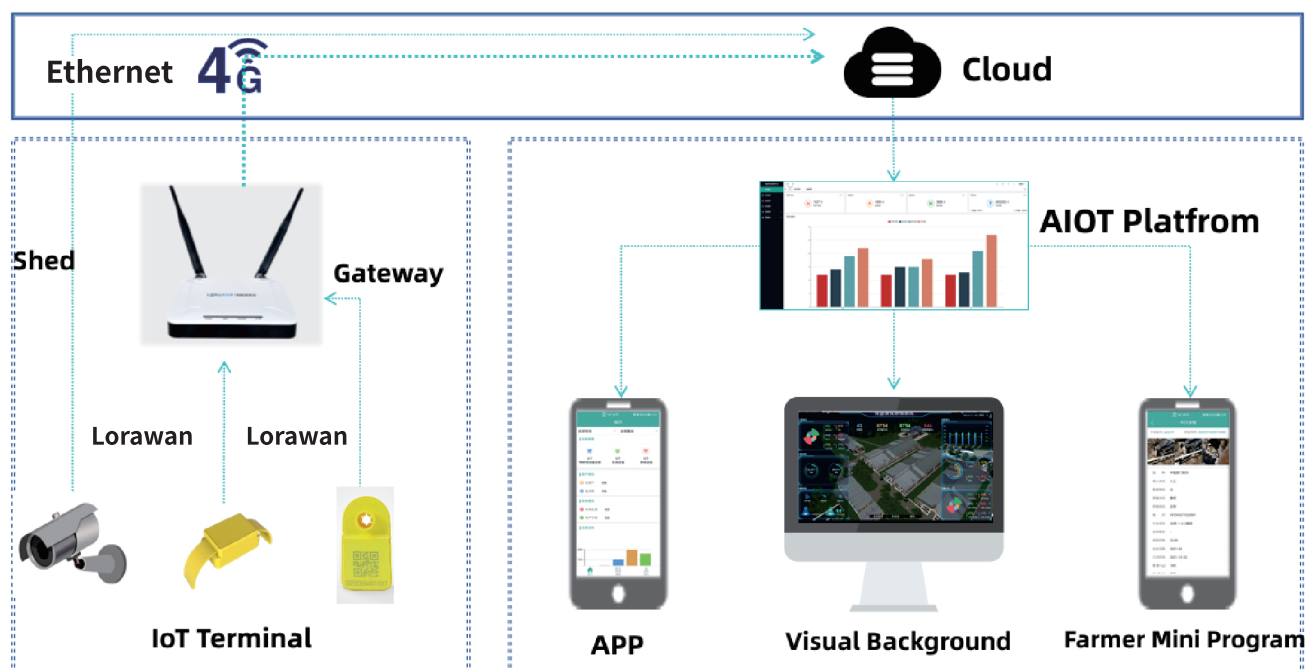
## Overview

The smart ear tag WE-HCBL38 is designed for the biological asset supervision scenarios of free-range cattle and camels. The ear tag uses lorawan communication technology, and the communication radius between the ear tag and the base station is up to 3KM. After wearing it on the ears of livestock, the body temperature and exercise volume can be collected and uploaded to the cloud server through the lorawan base station relay. The ear tag has a long communication distance, does not rely on the operator network, is light in weight, and can be reused. It is a powerful tool for biological asset supervision in free-range scenarios.



WE-HCBL38 Product Picture

## Product Topology



## Product Specifications

| No. | Type                 | Items                                                                                                    | Parameters                                                                                                                                                 |
|-----|----------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Parameter            | Communication Method                                                                                     | LoRaWAN (up to 3KM from the gateway, stable 2KM)                                                                                                           |
| 2   |                      | Frequency                                                                                                | China (CN470); Europe (EU868); North America (US915); Asia (AS923); Australia (AU915); Europe (EU433); India (IN865); Russia (RU864); South Korea (KR920); |
| 3   |                      | Temperature measurement range                                                                            | 0°C—50°C (30°C—43°C accurate to 0.1°C)                                                                                                                     |
| 4   |                      | Environment Temperature                                                                                  | −30°C~60°C                                                                                                                                                 |
| 5   |                      | Upload frequency                                                                                         | Upload once every four hours by default (frequency is adjustable, related to power consumption)                                                            |
| 6   |                      | LifeSpan                                                                                                 | 36 Months@4hours interval time                                                                                                                             |
| 7   |                      | Waterproof Grade                                                                                         | Ip67                                                                                                                                                       |
| 8   |                      | Size                                                                                                     | 58mm*30mm*9mm                                                                                                                                              |
| 9   |                      | Weight (without webbing)                                                                                 | 13g                                                                                                                                                        |
| 10  | Function             | Temperature measurement, step counting, electronic fence (base station positioning), automatic inventory |                                                                                                                                                            |
| 11  | Application Scenario | Free-range cattle and camels                                                                             |                                                                                                                                                            |

## Features

- ▶ Accurate monitoring: built-in intelligent high-precision three-axis acceleration sensor, which can accurately count the amount of livestock exercise.
- ▶ Temperature measurement: adopts a special structural design, and the collected temperature is closer to body temperature.
- ▶ Excellent material: the shell is made of preferred engineering plastics (plastic alloy), which is strong and environmentally friendly.
- ▶ Small size and light weight: weighing only about 13g, it will not cause stress response to livestock.
- ▶ Adopt large-capacity, high-density lossless batteries, which can achieve long-term battery life.
- ▶ Stable communication, easy installation, low cost, and reusable.

## Data Docking

Provide three data docking methods to meet the docking needs of different customers.

Method 1: Subscribe to MQTT

Method 2: WEBHOOK

Method 3: Dock through the platform interface