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## 1. Product Overview

The IVF-BT29 multi-color sound and light reminder tag is a 2.4G customizable electronic reminder light with colored lights and sound alerts. It requires our company's gateway and features six colors, one large RGB LED light, a transparent casing, and high brightness. It enables quick item location in inventory management (the item being searched for will have a flashing light indicator), and is suitable for applications such as Cainiao Express delivery station shelves, supermarket warehouse item retrieval, and large warehouse goods searching.

## 2. Product Features

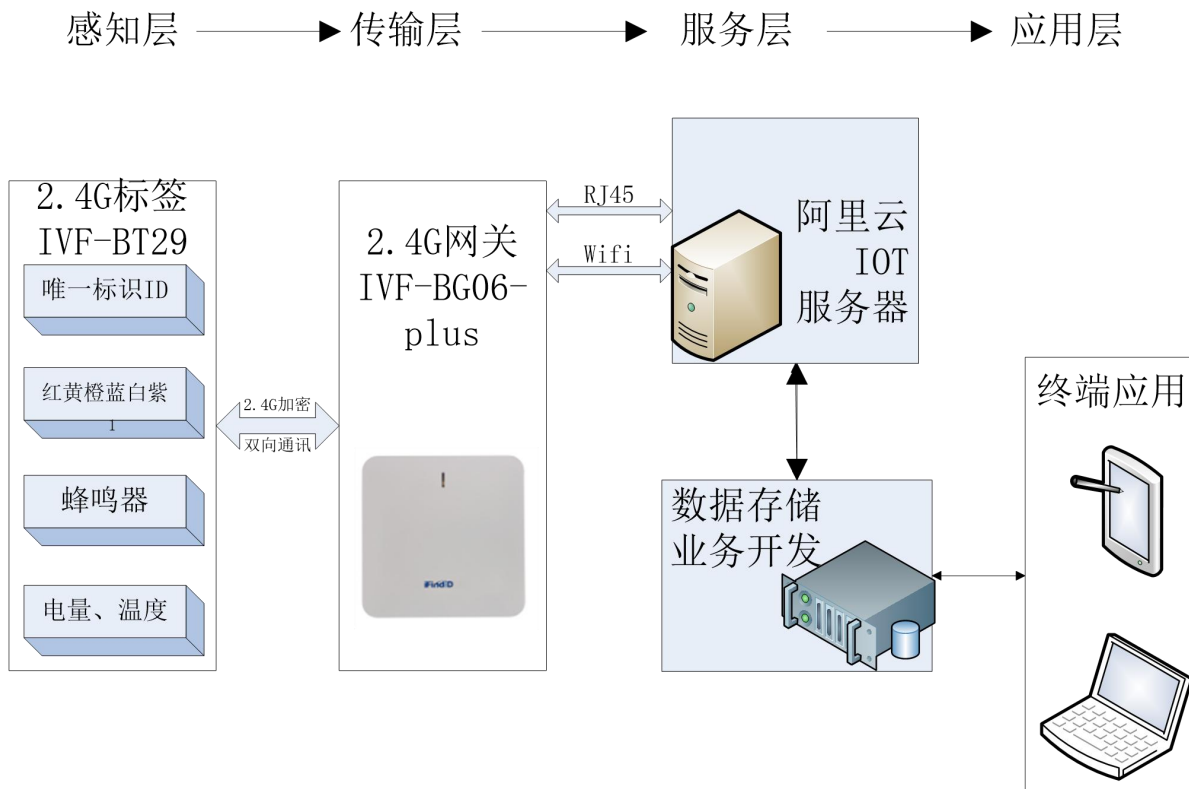
Product application design

- ◆ 2.4G low-power design, standby power consumption: 45 uA;
- ◆ Transparent casing allows for clear visibility of multiple colors;
- ◆ Special sealing glue provides IP54 waterproof rating;
- ◆ Overall weight approximately 16.2 grams;
- ◆ Uses a CR2450 button battery with a capacity of 600mA, providing up to 14 months of operation (more than 10 activations per day, 5 seconds each time);
- ◆ Battery is replaceable;

## 3. Product specifications

Product Name	RGB Bluetooth LED Tag
Product Model	IVF-BT29
Product Dimensions	53*35*14mm
Product Weight	Approximately 16.2g
Battery	CR2450
Communication Protocol	AES encrypted private key
Transmission Power	Default 6dBm
Installation Method	Cable ties, clips
Housing Material	PP
Reading Range	20m unobstructed range (depending on environmental conditions)
Operating Time	14 months (battery life is calculated based on the customer's usage frequency)
Storage Temperature	0~65°C
Color	White transparent (customizable)

### 4. System application block diagram



### 5. Product power consumption

Standby power consumption	45uA
Power consumption with indicator light on	580-1700uA
Buzzer	16mA

Example: Assuming the red light turns on 20 times a day, each time for 5 seconds, its battery life is calculated as follows:

Daily standby power consumption:  $45\mu A * 24h = 1080\mu A$

Daily power consumption when the light is on:  $1.7mA * (5 * 20 / 3600)h = 411\mu A$

Battery life:  $600mA / (1080 + 411)\mu A = 422$  days

## 6. Protocol

This protocol is for users who want to develop their own platform by their R&D team. If you want to get the protocol for this product, please contact our sales team. This protocol can only be disclosed after the confidentiality agreement is signed and the order is placed. If the user does not want (or cannot) sign a confidentiality agreement, then only use a third-party platform or product, please consider it seriously.

## 7. Notes

In order to use this product safely and effectively, please read the following before use.

- Non-professionals are strictly prohibited from disassembling the shell to prevent product damage.
- The product contains batteries, which are strictly prohibited from being thrown into fire or used in flammable and explosive environments to prevent battery explosion.

## 8. Environmental protection instructions

◆ Please do not put discarded batteries together with general household garbage. In areas where there are corresponding regulations for the disposal of used batteries, please follow the relevant regulations of the local management department and contribute to environmental protection.



## 9. Warranty Service Terms

### 1. Warranty Service Scope

- Warranty products:

In order to comply with the relevant laws and administrative rules of the People's Republic of China, this warranty service is a limited warranty and is only applicable to products sold by Xminnov Information Technology Co., Ltd. (hereinafter referred to as Xminnov) or authorized dealers.

- Warranty period:

From the date of purchase to the date of shipment, the product can enjoy warranty service if it fails under normal use within the following period. If the customer needs warranty service, he/she needs to provide the purchase contract, receipt, SN number of the faulty machine, and description of the fault problem to prove that the product enjoys

a one-year warranty from the date of purchase.

- Non-warranty scope:

- a. Failure to provide a valid purchase contract, receipt or certificate (including the content of the purchase contract, receipt has been altered, or does not match the actual product, etc.)

- b. Surface damage, such as scratches, dents or depressions.

- c. Batteries and other consumables, except for those caused by material or workmanship defects.

- d. Damage caused by accident, abuse, misuse, fire or other natural disasters or due to improper use or unreasonable maintenance (including damage caused by external force)

- e. Repair, modification or change by maintenance personnel not authorized by Xminnov may cause permanent damage to the product.

## 2. Description

- This warranty clause provides you with specific legal rights, but its rights may vary due to different national regulations, and Xminnov does not exclude, restrict or suspend other legal rights stipulated by national laws, so some of the following restrictions may not apply to you.

- To the extent permitted by law, this warranty clause is exclusive and replaces all other express or implied or statutory warranty conditions, including for a special purpose, statutory provisions or any other circumstances, including but not limited to any liability derived from the merchantability or fitness for a particular purpose of the product. In addition, Xminnov will not be responsible for any accidental, special, indirect or consequential damages (which may arise from use, misuse, lack of use or product defects).

- For products or services obtained and/or used in violation of any national law, Xminnov reserves the right to refuse warranty applications.

- If the product is sold through auction websites or other products not sold by Xminnov or authorized dealers, it is not covered by this warranty service.

- If the product is not covered by the warranty after testing, Xminnov will repair it after obtaining the customer's consent and quoting the fee. For the repaired fault, Xminnov provides a 90-day warranty for the same functional fault.

- Xminnov reserves the right to repair/replace products or software. Xminnov will use original spare parts for repairs in accordance with standard procedures; in the event of unrepairable conditions, some products will be repaired by module replacement or whole machine replacement. In the event of a shortage of repair materials or product discontinuation, the same product of equal value will be provided for replacement during the warranty period according to the depreciation of the product, or an upgrade will be provided with the customer's consent and the price difference will be charged; outside the warranty period, no repair service will be provided. The replaced faulty parts belong to Xminnov.

## 3. Notes

- Before applying for product warranty, customers should back up all important personal data in advance and only provide products that need warranty. During the

repair process, the data in the product may be lost and cannot be restored. Xminnov does not provide data backup nor guarantee the consistency of related settings before and after repair.

## **10. Product discontinuation notice**

◆ First of all, thank you very much, dear customer, for your long-term patronage and support for the products of Xminnov Information Technology Co., Ltd. Xminnov would like to express our most sincere gratitude! It may be due to the upgrade or discontinuation of the model of the spare parts supplier, or the company may upgrade and update the product normally to better adapt to the development of the market and technology and provide you with better products or services. Therefore, the original old model products will be discontinued. Before the discontinuation of production, Xminnov will send a discontinuation letter one year in advance to notify Xminnov's customers by email, except for force majeure (such as natural disasters, chip crisis, epidemic, etc.).

## **11. Contact Information**

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