



simpler, smarter, and more efficient

Make enterprise material management



specification

KEY CABINET PRODUCT SPECIFICATION

Colorful Storage Location Label: ZSL-PT01

1. Product Image



2、Product Overview

The ZSL-PT01 Colorful Storage Label is a 2.4G customizable electronic tag featuring multi-color light alerts, available in six colors with a single RGB light source and transparent housing for high brightness, enabling rapid item location in inventory management (with illuminated indicators for targeted items). It is ideal for applications such as warehouse material tracking, Cainiao Station cargo sorting, herbal medicine selection, supermarket inventory search, and laboratory sample identification.

III. Product Features

- 2.4G low-power design with standby power consumption of 63 μ A;
- Features a transparent casing with multiple colors clearly visible
- Features a special sealing compound with an IP54 waterproof rating;
- The surface can be printed with QR codes, MAC addresses, etc.;
- Total weight: 20 grams;
- Low-temperature resistant button battery with a capacity of 1000 mA, providing up to 18 months of operation (over 10 light cycles per day, each lasting 5 seconds);

- The battery is replaceable;

IV. Specifications and Parameters

Main Specification Parameters	
product name	Colorful Storage Location Labels
product model	ZSL-PT01
product size	38(L)*30(W)*13mm(H)
Product Weight	20g
cell	CR2477
communicating protocol	AES Encryption Private
frequency point	2.4035GHz
transmitting power	Default: 0 dBm
way to install	paste
sheathing material	PC
communication range	20–50 m (depending on environmental conditions)
operate time	18 months (the battery lifespan is calculated based on the customer's usage frequency)
Storage Temperature	0 ~ 65°C
pigment	White transparent (customizable)

V. System Application Block Diagram

感知层 → 传输层 → 服务层 → 应用层

