PTL Introduction

Smart Electronic TAG

Intelligent Retail

Intelligent Manufacturing

Intelligent Warehousing

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High Light

- 2.1inch E-ink Display
- Wireless communication
- Buttons and tri-color LED
- 250*122 dot matrix screen
- Support 24V external power supply / battery power supply
- DIY interface supports text / barcode / QR code
- Ultra low power consumption

Overview of PTL

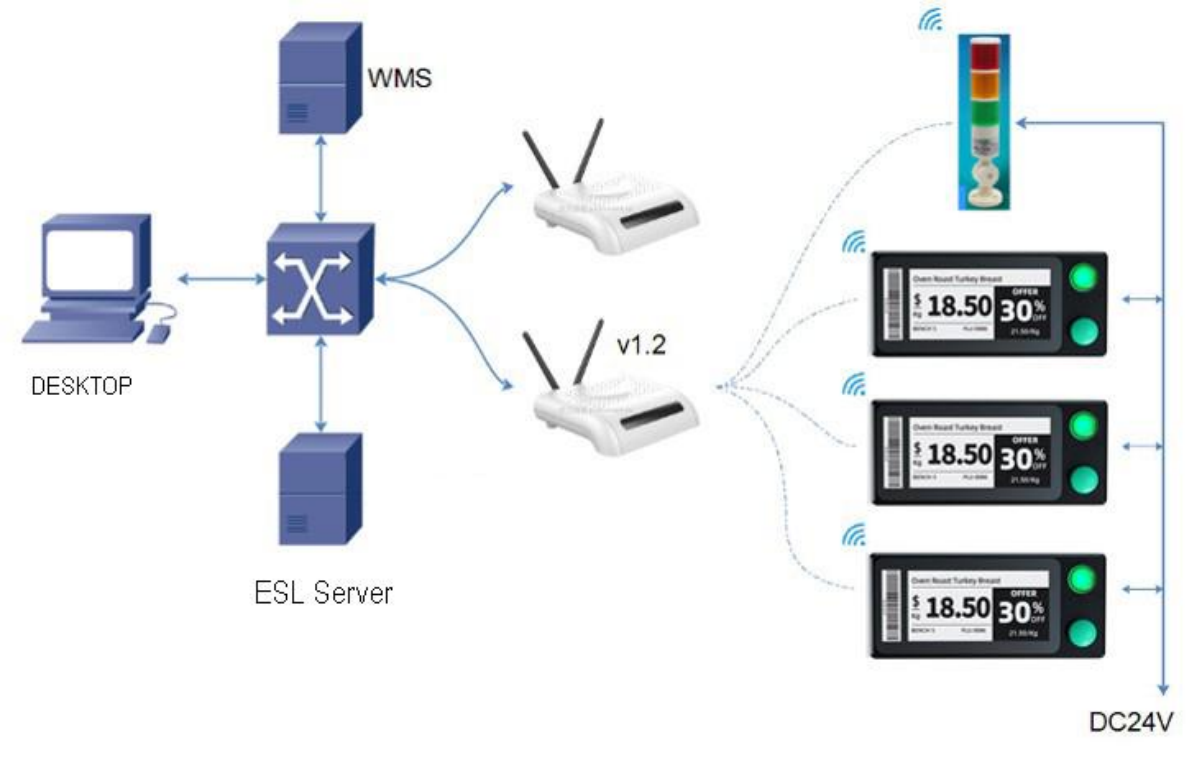
The electronic label picking system is a logistics auxiliary operation system developed using advanced electronic technology and communication technology. It is usually used in the sorting process of warehousing or modern logistics centers. It has fast picking speed, high efficiency, low error rate, and paperless , Standardized operating characteristics. As an advanced operation method, the electronic label assisted picking system is more efficient when used in conjunction with a warehouse management system (WMS) or other logistics management systems.

The electronic label picking system is a group of electronic equipment installed on the shelf storage space. It is controlled by the computer and software, and uses indicator lights or digital displays as auxiliary tools to guide the picking workers to complete the work correctly, quickly and easily.

Characteristics and Benefits

- Improve operation speed and quality
- Quickly and Easy deployment
- Realize paperless and standardized operation
- Reduce operator training time
- Reduce labor costs, management costs, etc.

Structure 1



The PTL system is to send instructions through the picking system and forward it through the router, and control the LED lights and screens on the electronic tags to guide the pickers to accurately and quickly pick the corresponding goods to the designated location.

Structure 2

NEW

All in one, more powerful:

- webserver: Tomcat,
- Server system:JAVA,
- Database: Mysql

Send command
HTTP&json
or
Direct operation via web page

V1.4

Note: The V1.4 version of the base station has a built-in server program. Users only need to send operation instructions to this base station, which is easier to use.

PTL(Pick to light)

Receive and analyze the data information sent by the router, make corresponding instructions, and click the button to complete the picking.

- Electronic ink screen 2.1 inch
- Comes with 1 button
- Label ID code displayed on the front
- Wireless communication 868M, frequency hopping communication
- Communication rate 200K / 50K
- Cover a communication radius of more than 30 meters
- Multi-color LED highlight indicator
- Resolution 250 * 122, support character, bar code, QR code display
- Length, width and thickness: 70x34.7x13.6mm
- Two power supply modes are available:

1. Button battery pack power supply,
2. 24V external power supply

- Custom two-way communication protocol, safe and reliable
- Screen display area 23.71x48.55mm
- Interface Protocol: HTTP & Json

TYPE:CK_Label_V13

support external 24V power supply or button battery power supply

PTL Outline

2.1-1109 black

2.1inch E-ink

High Light LED

Button R:25
G:183
B:149

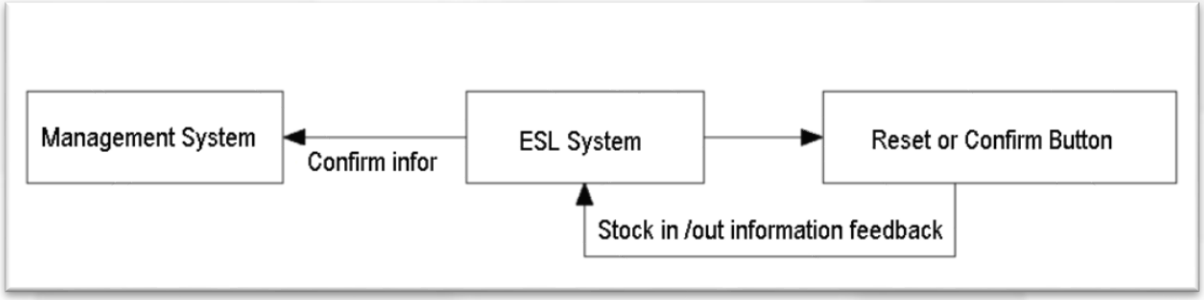
Glass R:58
G:64
B:69

PTL Outline

Front Panel

Rear Panel

Button control process



Button function description：

V13 PTL Only has one Button

Function1：Confirm key. To confirm the completion of out and in warehouse, and feed back the information to the upper control management system;；

Function2：Registration, press this key 3 times in a row to register the label information to the server;；

Function3：It is a user-defined function key. The system can customize the function application as needed

Lane Road Lights

Wirelessly receive and analyze the data information sent by the router, make corresponding instructions, cooperate with the picking lane prompts

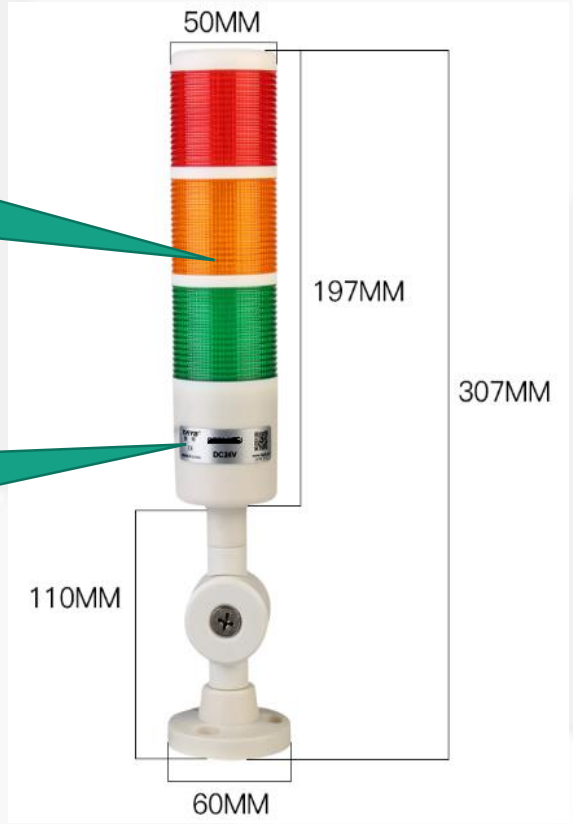
- Cooperate with label picking
- All three lights can be controlled independently
- Wireless communication 868M, frequency hopping communication
- Communication rate 50Kbps
- Cover a communication radius of more than 30 meters
- Multi-color LED highlight indicator
- 24V external DC power supply
- Built in buzzer, which can be controlled by command

Model：CK_Label_V9

Lane Road Lights

All three lights can be controlled independently

Magnetic proximity, trigger registration



DC5.5*2.1

DC24V，<0.2A

Use process

Initial: set the server and label parameter information

Step 1: the customer sends the picking information to the label server

Step 2: the server parses the instruction requirements and lights the roadway lights and labels wirelessly

Step 3: pick goods according to the label with the light on, press the confirm button to turn off the light, and the screen content is updated to the result after operation

Fixing the label

Two installation and fixing methods：

1. Fixed with rail bracket (this is easy to disassemble)

2. Custom rail slot fixing

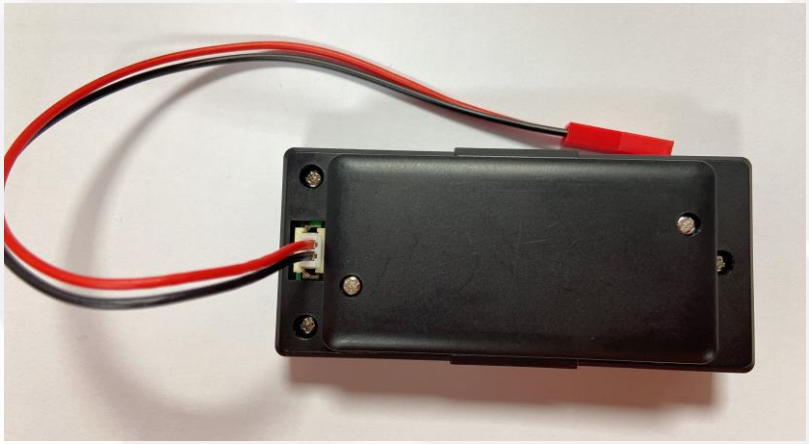
Power Supply

Two ways for power supply：

1. Button battery pack power supply (battery version)

CR2477x2，3V

2.DC24V External power supply (external power supply version)



ROUTER

Receive the operation command issued by the server, parse it and then send it to the electronic tag through wireless

- Wireless communication distance 30m
- Wireless communication rate 200 / 50kbps
- Network communication rate 10/100 Mbps
- Custom two-way data communication protocol to ensure data transmission speed and accuracy
- No limit on the number of electronic tags covered
- Support multiple routers working synchronously
- Parallel communication, safe and fast
- All-round transmission, no dead ends
- Support online software upgrade

V1.2 version of the base station has an independent routing function and needs to cooperate with the label server

V1.3 version base station comes with server program

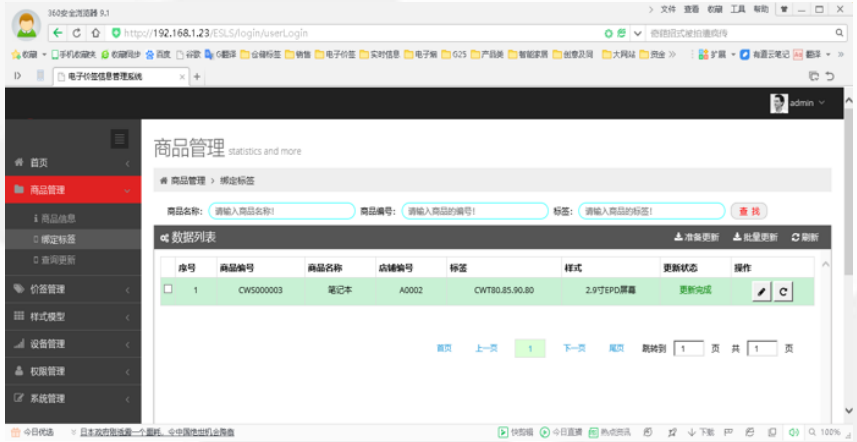
Router

Length, width and Heigth (except antenna) ： 21*14*4.3cm

Multi-function operation interface

Through the background management interface, to achieve comprehensive management and control of information.

- Multi-account management background
- Web-side software, you can remotely control tags by entering the URL
- Real-time view of base station and tag status
- Label display style template customization
- User product data table import
- System software supports deployment of cloud and local private servers
- Quickly refresh and light up
- Simple docking interface



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