# Specification of 10.2inch wiFi ESL

1. Introduction of Wifi ESL

WiFi ESL is a new product of our company. It can transmit data through the Internet without base station. It has background management software and database management. The WiFi ESL is equipped with large capacity rechargeable battery, which can realize long-term standby. It is suitable for the supermarket, medical and storage environment.

10.2inch WiFi BWR ESL(SETPW1020R)

2. System Structure
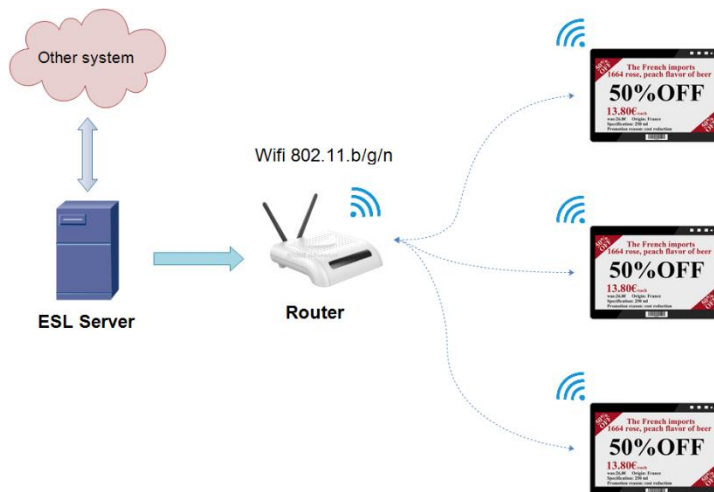
Every certain period of time (the length can be set), the tag will actively ask the server if there is any data that needs to be updated, if it is updated, otherwise it will continue to sleep

3. Specification

TECHNICAL DETAILS	Product code	ESL_WIFI_10.2
	Dimensions (mm)	237.9*176.9*13.5
	Display technology	3 color E Ink display
	Active display area (mm)	215.5*143.68
	Resolution (pixels)	960x640
	Pixel Size(mm)	0.2245x0.2245
	Pixel colors	Black/white/red
	Viewing angle	Nearly 180°
	Operating temperature	0 ℃ to 40 ℃
	Battery	3000mAh
	Battery lifetime	1 years (15min Heartbeat time)*
	LED	1 × green(more options available)
	ESL operating frequency	2.4G wifi b/g/n
	Wireless firmware update	Yes
	Wireless remote control	Yes
	Provide docking interface	Yes

- Comes with button and LED
- Label ID Barcode displayed on the front
- WIFI wireless communication
- LED status indicator
- Support character, barcode, QR code, three-color picture display
- Power supply: built-in lithium battery, commonly used to charge one year
- Battery capacity: 3000mAh
- Charging interface: Type-C charging interface
- Display template style can be DIY

4.How to Connect WiFi ESL to Server

Step 1: Set wifi hotpot ("ESL" "123456789") and then open the mobile APP to set the parameters:
- Wifi account \ password in the environment
- Server address \ port
- Set the heartbeat time of the label
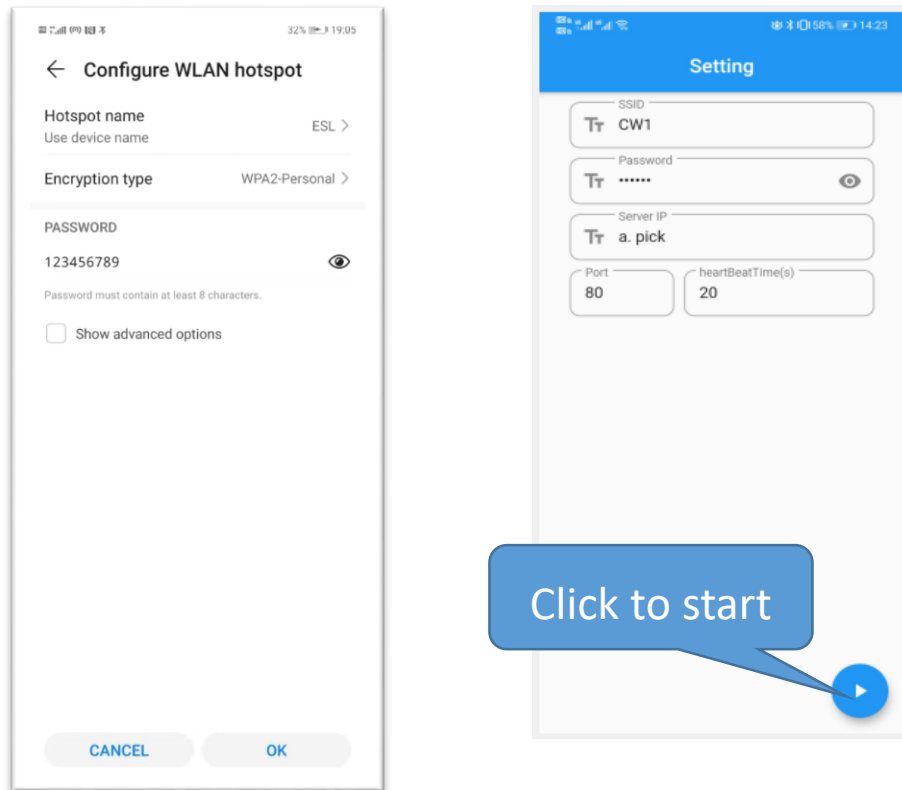
Step 2: Use a pin-shaped object to trigger the button in the hole next to the USB on the back of the device (make the label enter the configuration mode), Press and hold the back button (for 2-3 seconds) until the screen flashes. After flashing, the app will be automatically connected to obtain the setting data. The success is shown in the figure below.

After the parameters are obtained successfully, the label will restart automatically, and access the server with the new configuration parameters. If the access is successful, the default image will be downloaded from the server.

At this time, the tag will automatically connect to the hotspot named ESL, and once the connection is successful, new parameter information will be written

Step 3: Enter the operation interface to modify the content. Each time the heartbeat time is reached, the label will go to the server, if there is new content, download it to the label to update the screen, if not, continue to sleep

5.How to manage ESL

Login server and manage labels:

1. Open the computer browser (Google Chrome is recommended)

2. Visit http://103.139.3.135 :8010/mms/mms/tologin

The user name and password need to be obtained from Sertag.
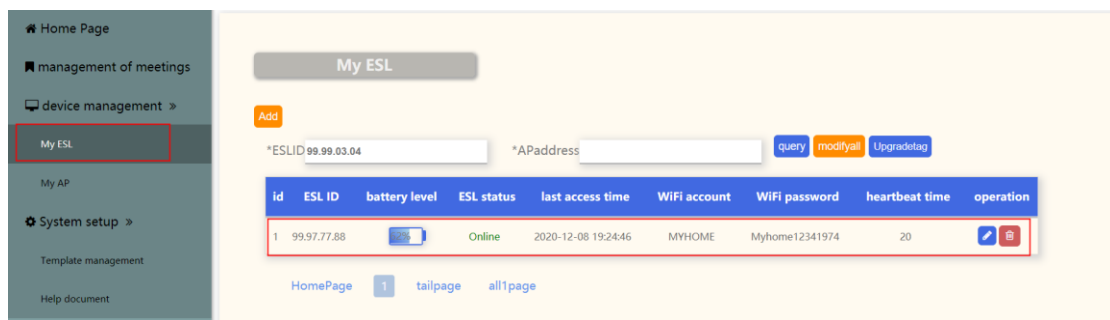
3. Operation label
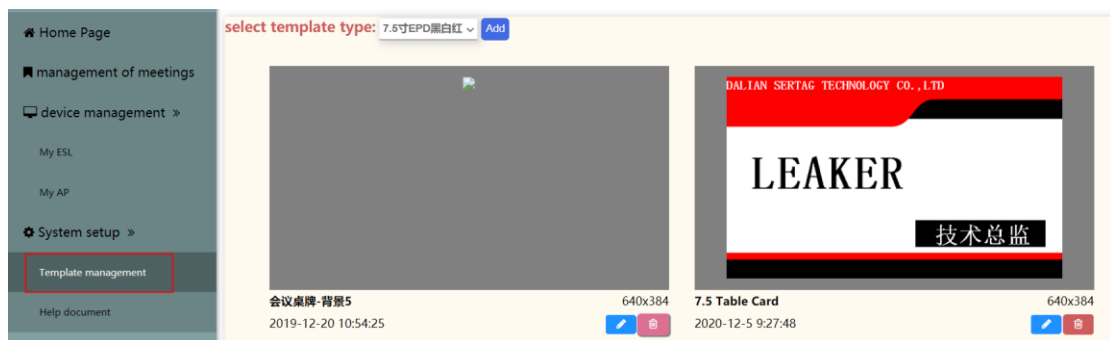
Click "conference management" - > "modify the content of the sign"

At this point, the label can be used normally.

Wait for the tag to access the server. After the server succeeds, it will download and refresh the image to the screen. After the download is completed, the tag status will change to update completed. If the period (heartbeat time) of the tag query server is set to 0, you can press the button in front of the tag to trigger the tag to connect to the server to download the image.

Note: if the heartbeat time is 0, the label will not ask the server actively. You need to manually press the button in front of the label to trigger the tag to query the server once. You can change the heartbeat time to 20 seconds (the heartbeat time is set according to the actual use), then the server will be asked actively every 20 seconds.