



شركة كويت كاروبريشن ليمتد
KUWAIT CORPORATION LIMITED

WiFi Electronic Label

Solutions

Kuwait Corporation Limited



Contents

1. Analysis of Wi-Fi ESL Solution	3
2. Wi-Fi ESL Solution Introduction	4
2.1. Wi-Fi ESL Working Principle	4
2.2. Wi-Fi ESL Software.....	5
2.3. Wi-Fi ESL Information	6
3. Accessories & Installation.....	7
4. Application Scenarios	7
5. After-sales & Common Troubleshooting	8
6. Company Profile	11

1. Analysis of Wi-Fi ESL Solution

In the past decade, Zhuhai Suny Technology Co.,LTD has made outstanding contributions in the field of Electronic Shelf Label, providing a variety of solutions: 433MHz ESL Solution, 2.4GHz ESL solution, NFC ESL solution and Bluetooth ESL solution, with many successful cases in supermarket, office, medical and warehouse fields.

We have received feedback from some customers in the process of our continuous problem solving for them: namely, for the application scenarios such as: Office, Hotel, Library and University, the large-size electronic labels are needed to adapt to these scenarios. Meanwhile, when customers have already installed network base stations, it does not necessary to purchase other types of base station, resulting in a waste of resources. So, is it possible to use the Wi-Fi router directly as a medium to transmit the signal when there is already a Wi-Fi router in the such premises where the customer is located?

It was a problem that our technologists had been trying to solve all along. People used to be skeptical about wifi devices, believing that they consume very much power and cannot be used for years. However, over a period of research and testing, we have introduced Wi-Fi ESL, which have the same long life as other labels and will be the alternative in above scenarios.



2.Wi-Fi ESL Solution Introduction

2.1. Wi-Fi ESL Working Principle

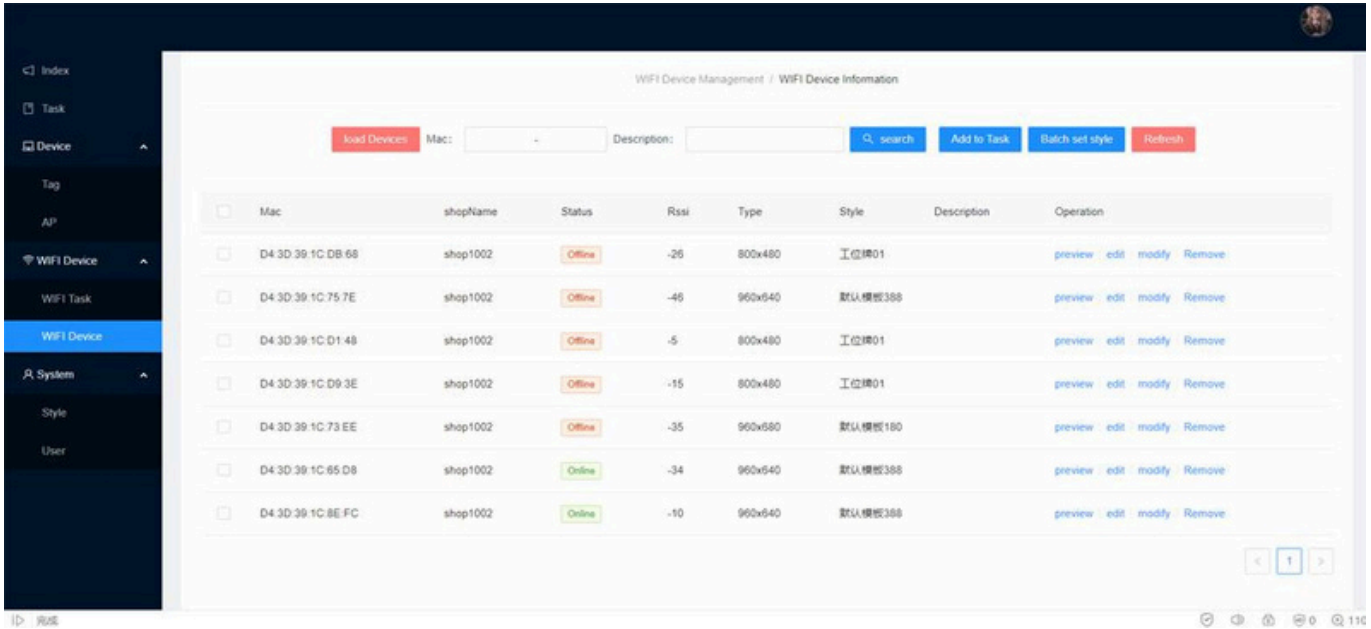
Wi-Fi ESL solution includes three parts. ESL, Wi-Fi router and Software.

The working method is that the user sends commands to the labels through software on the computer terminal, in order that can updates the labels in batches on the same Wi-Fi network.

Work Principle



2.2. Wi-FiESL Software



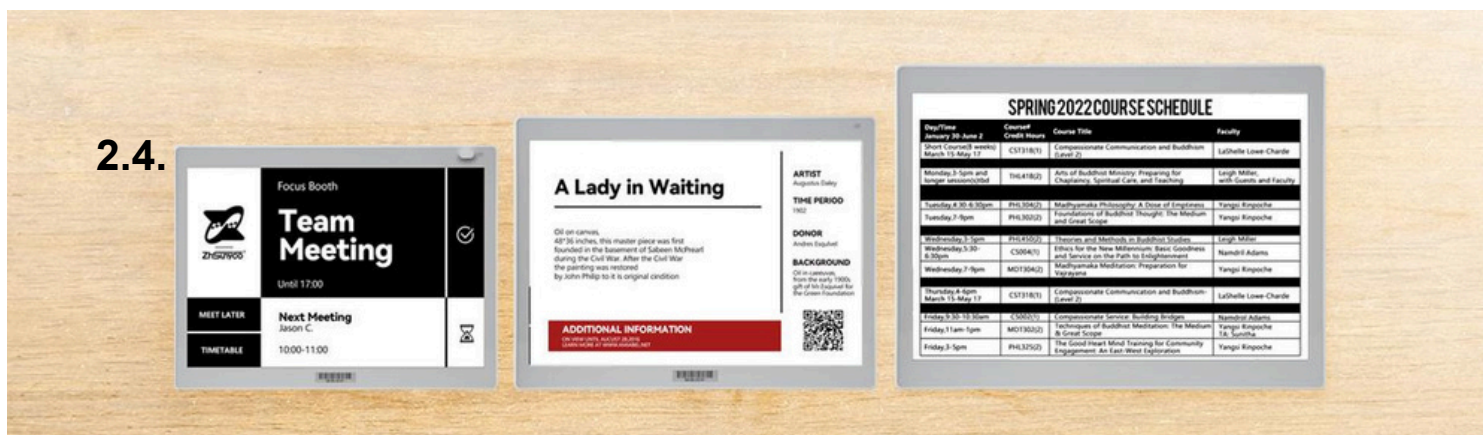
The screenshot displays the 'WiFi Device Management / WiFi Device Information' interface. It features a search bar with 'Mac' and 'Description' fields, and buttons for 'Load Devices', 'Add to Task', 'Batch set style', and 'Refresh'. Below the search bar is a table with the following columns: Mac, shopName, Status, Rssi, Type, Style, Description, and Operation. The table contains eight rows of device data, with the first five marked as 'Offline' and the last three as 'Online'.

Mac	shopName	Status	Rssi	Type	Style	Description	Operation
D4-3D-39-1C-DB-68	shop1002	Offline	-26	800x480	工位牌01		preview edit modify Remove
D4-3D-39-1C-75-7E	shop1002	Offline	-46	960x640	默认模板388		preview edit modify Remove
D4-3D-39-1C-D1-48	shop1002	Offline	-5	800x480	工位牌01		preview edit modify Remove
D4-3D-39-1C-D9-3E	shop1002	Offline	-15	800x480	工位牌01		preview edit modify Remove
D4-3D-39-1C-73-EE	shop1002	Offline	-35	960x680	默认模板180		preview edit modify Remove
D4-3D-39-1C-65-D8	shop1002	Online	-34	960x640	默认模板388		preview edit modify Remove
D4-3D-39-1C-8E-FC	shop1002	Online	-10	960x640	默认模板388		preview edit modify Remove

We provide paid software to you in which you can set up label templates that suit your usage scenarios, and eventually these templates become available for you to update to the Wi-Fi labels.

2.3. Wi-FiESLInformation

2.4.



Wi-Fi ESL Parameters

N. o.	Model	Dimensions H*V*D(mm)	Size	Display			N.W.	Battery (mAh)
				L*H(mm)	Resolution	Colors		
1	SHESL-45-7RA	180.0*130.0*13.0	7.5	163.2*98.0	800x480	B/W /R	240	3000
2	SHESL-34-9RA	237.9*176.9*13.5	10.2	215.5*143.7	960x640	B/W /R	440	3000
3	-	298.0*232.0*13.8	13.3	275.5*195.2	960x680	B/W/R	730	4000
Display		Technology			E-ink Display			
		Viewable Angle			Close to 180°			
Communication Info.		Frequency	Wi-Fi		Other Info.	Operating Temperature	0~40°C	
		Wireless firmware update	Yes			Battery Lifetime	5 years	
		Wireless remote control	Yes			Interface	Type C	



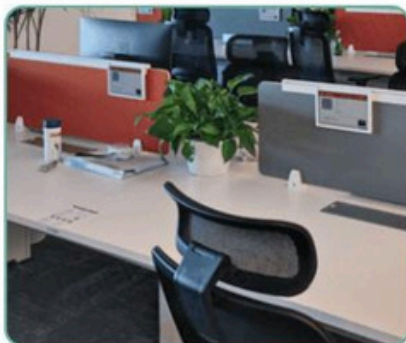
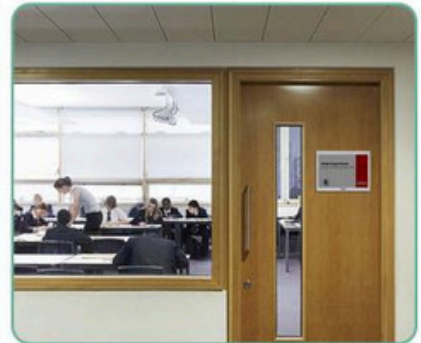
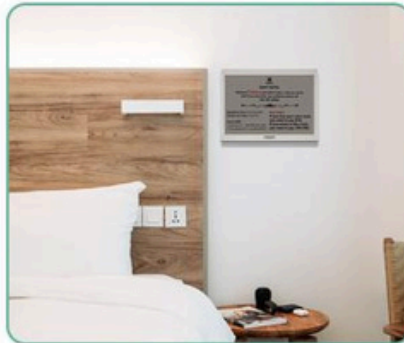
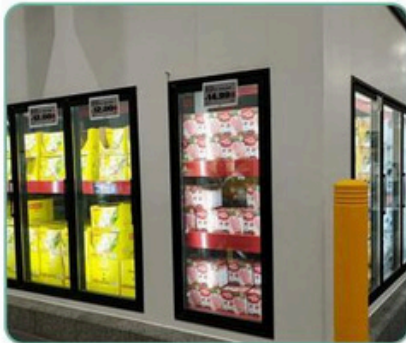
3. Accessories & Installation

Installation Steps



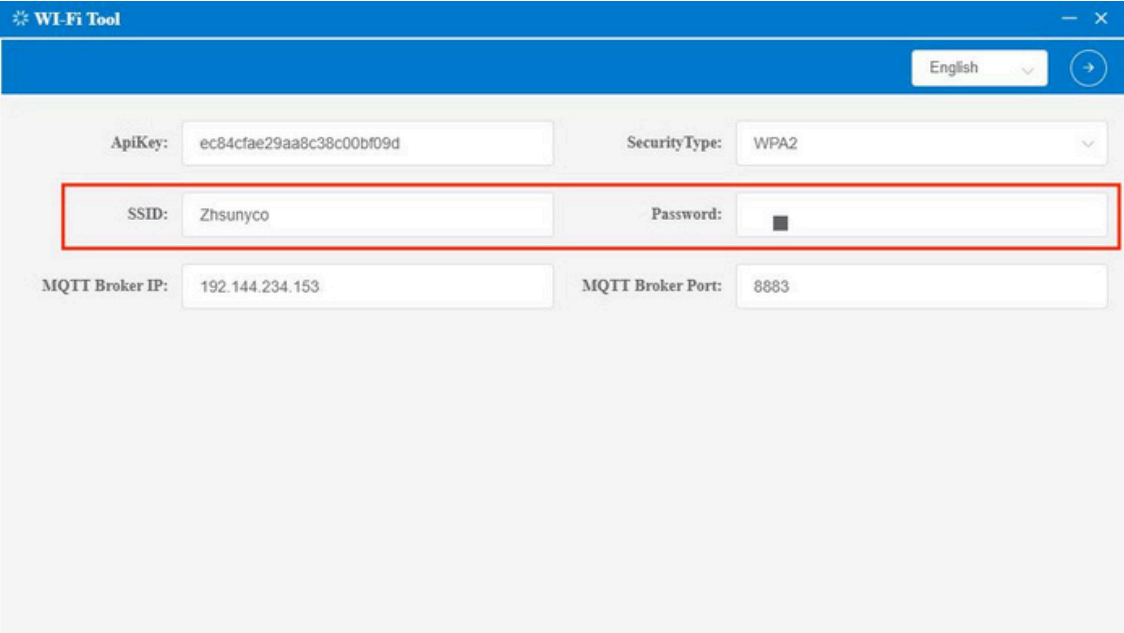
4. Application Scenarios

Usage Scenarios



5. After-sales & Common Troubleshooting

①



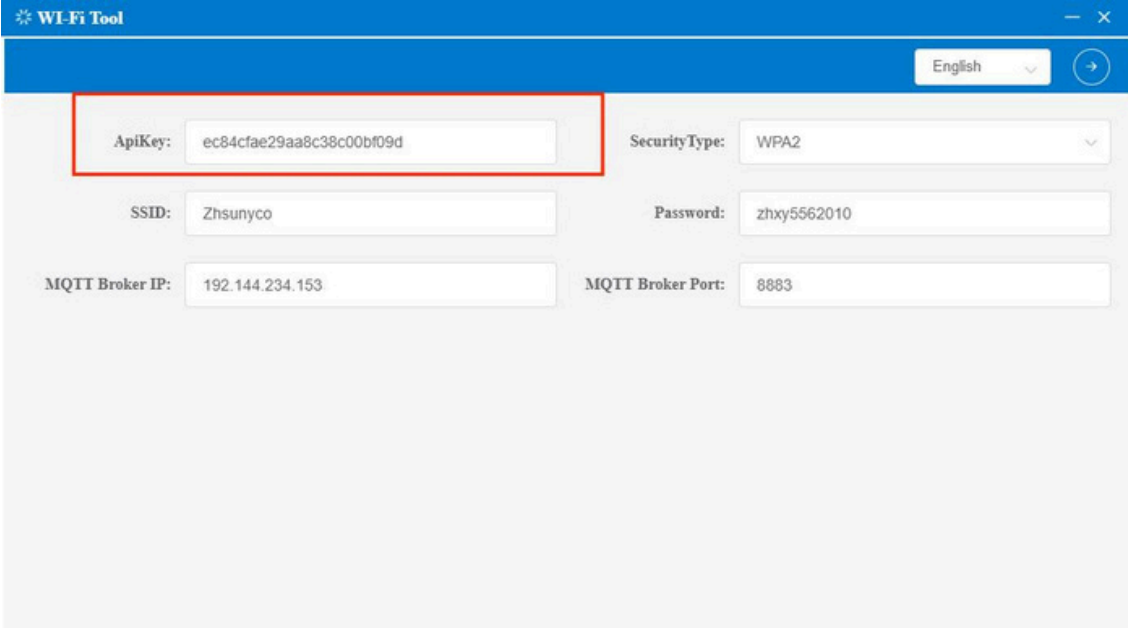
The screenshot shows the 'WI-Fi Tool' interface with the following fields:

- ApiKey: ec84cfae29aa8c38c00bf09d
- SecurityType: WPA2
- SSID: Zhsunyc0 (highlighted with a red box)
- Password: [Redacted]
- MQTT Broker IP: 192.144.234.153
- MQTT Broker Port: 8883

Problem: The SSID in the red area represents the Wi-Fi name, which is prone to case-sensitive error and wrong Wi-Fi selection, resulting in configuration failure.

Solution: Pay attention to distinguish the case-sensitive of Wi-Fi name and password, and the label and computer must be on the same wifi network

②



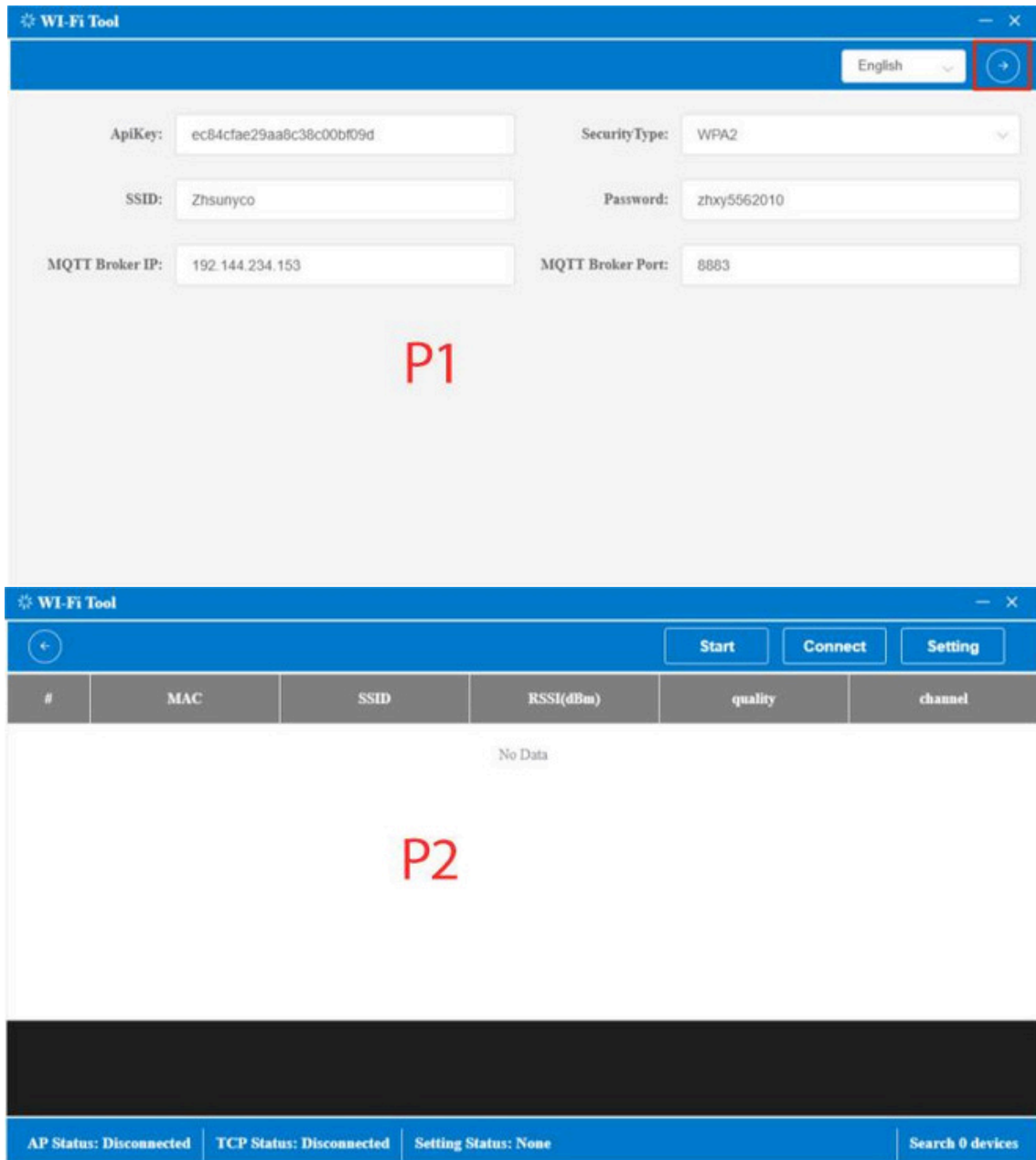
The screenshot shows the 'WI-Fi Tool' interface with the following fields:

- ApiKey: ec84cfae29aa8c38c00bf09d (highlighted with a red box)
- SecurityType: WPA2
- SSID: Zhsunyc0
- Password: zhxy5562010
- MQTT Broker IP: 192.144.234.153
- MQTT Broker Port: 8883

Problem: The ApiKey error, resulting in configuration failure.

Solution nApiKey is unique and is provided by the supplier after purchase.

③



Problem: Configuring in Picture 1 can not search for the labels.

Solution: Click the red area in Picture 1 to enter the interface of Picture 2, and then start the operation process of Wi-Fi label.

④

Problem: The label configuration operates in the wrong order causing the failure to search for labels or configure them.

Solu tio n:

Step 1: Lightly press the label side button once.

Step 2: Use a sharp object to lightly insert the hole behind the label once.

Step 3: Press the label side button for 5-10 seconds.

Step 4: Stop all operations until the label enters the configuration interface. When you see the blue light in the upper right corner blinking continuously, the label is successfully configured.

We will provide online guidance services, such as Software oftware installation guidance, label template design guidance, label update guidance, and more.

If you encounter any problems in the product or Software, please contact us in time, we will solve the problems out and assist you to complete the product testing as soon as possible.

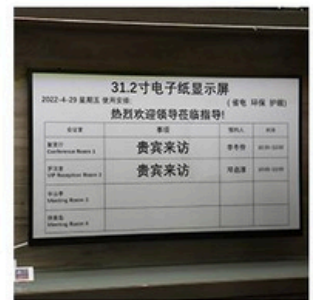
6. Company Profile

Zhuhai Suny Technology Co.,Ltd. was established in 2016, is a professional manufacturer of intelligent electronic display tags in software development, hardware and product design, solution deployment and after-sales maintenance have a wealth of practical experience in all aspects.

In 2020, we launched to the market zhsunyco® brand is committed to provide better services and solutions for overseas customers. Zhsunyco® adhering to the business philosophy of "customer-oriented", zhsunyco® is committed to intelligent display solutions for retail, industry, warehousing and logistics, helping various industries around the world to reduce paper waste and contribute to the goal of global carbon neutrality.

Zhsunyco® smart display products include electronic shelf labels, e-ink screens and lcd displays. Among them, we have four different communication technology solutions including 2.4GHZ, 433MHZ, BLE, NFC, Wi-Fi, in order to meet the needs of different customers in different scenarios.

As of 2022, we have served more than 180 countries and more than 20,000 supermarkets worldwide, enabling customers to successfully move from the traditional retail model to the new retail model.



For More Products
Please Contact Us

<https://kuwaitcorp.com/>

Habib Al- Manawar Complex Floor 4, Farawaniya, Kuwait



Cloud-based multi-store management

Applications:

Supermarkets, shopping malls,
chain stores, etc.



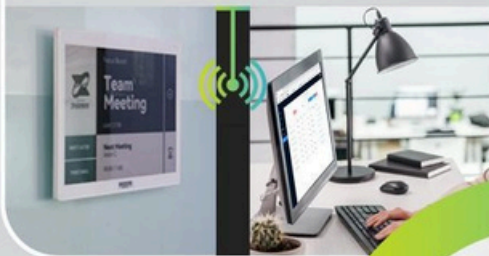
2.4GHz & 433MHz ESL

WIFI ESL

Direct WIFI Connection - Digital Display

Applications:

Office, classroom, libraries,
restaurants, etc.



NFC & BLE ESL

Mobile Phone - Digital Display

Applications:

Small retail stores, clothing
stores, gift stores, DIY stores,
restaurants, etc.





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