

ELSA-E

Electronic Shelf Labeling System

Ultra-thin · Full graphic
Autonomous system · Environmentally friendly

RELIABLE CELLULAR-LIKE TECHNOLOGY

Unique tree network for optimal coverage without interference from existing Wi-Fi networks

EASY PLUG-AND-PLAY SYSTEM

Self-networking system enables easy infrastructure setup

EXCEPTIONAL READABILITY

High resolution e-paper display for 180° viewing

LONG BATTERY LIFE & FAST UPDATES

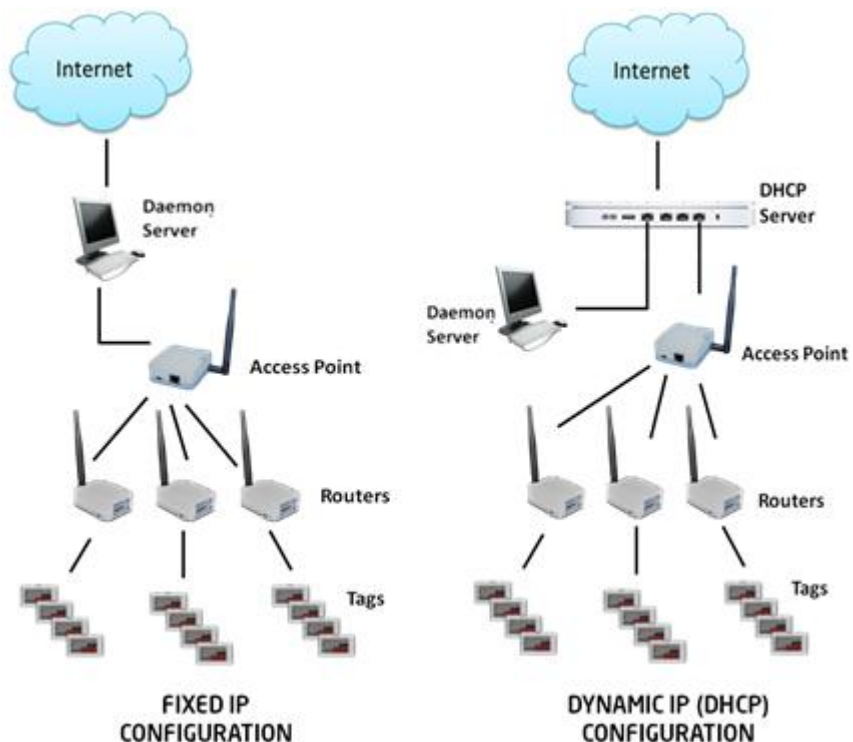
Unique wireless protocol tuned to optimize the power consumption and network efficiency

ANTI-JAMMING FROM Wi-Fi

13,500 graphic tags are fully updated per hour

INTELLIGENT SYSTEM

Acknowledges updates; battery level and signal strength notifications



Technical Specification



MODEL NAME: ES75-S2

INFRASTRUCTURE

SIZE (W x H x T) mm	126 x 182 x 14.6
WEIGHT, g	216
ANTENNA	INTEGRATED PCB ANTENNA

NETWORK

INTERFACE	WIRELESS
FREQUENCY	SUB-GHz ISM
OPERATION MODE	903~927MHz
ENCRYPTION	AES 128-bit
TRANSMISSION RANGE	100 METERS (LINE OF SIGHT)

OPERATING CONDITIONS

OPERATING TEMP/HUMIDITY	0 ~ 35°C / 35 ~ 55% (non-condensed)
STORAGE TEMP/HUMIDITY	0 ~ 40°C / 35 ~ 80% (non-condensed)
POWER	4 x CR2477
APPLICATIONS	Retail, Smart Display

Display

RESOLUTION	800 x 480
DPI	137 pixel

Device Setup:

Access Point Setting

The Access Point has a wired connection to the base station (computer) and communicates wirelessly with the Router(s) via the M2COMM proprietary protocol.

Please refer to below procedure to setup your Access Point.



Status Indicators and Assembly:



LED status functions:

Red –Power-on self-test error

Green –Power on indicator

Blue –Network connection, shall flash slowly during boot-up and stay on while connection is built up successfully.

Yellow network
activity indicator



Green network
activity indicator

Access Point - Network Port:

GREEN network activity indicator—turns on when a cable connects the port to another Gigabit Ethernet port

YELLOW activity indicator—Flashes to indicate network activity over that port



Attach included Antenna



Plug one end of the supplied Cat 5E cable into the Access Point, the other end should be plugged into your computer.



Connect the supplied AC power adaptor as shown.
Use only the adapter that came with your Access Point

Router Setting

The Router(s) operate wirelessly, via the M2COMM proprietary protocol, with the Access Point and aisle light.

Please refer to below procedure to setup the Router.



Status Indicators and Assembly:



LED status functions:

Red –Power-on self-test error

Green –Power on indicator

Blue –Network connection, shall flash slowly during boot-up and stay on while connection is built up successfully.



Attach included Antenna



Connect the included AC power adaptor as shown.
Use only the adapter that came with your Router

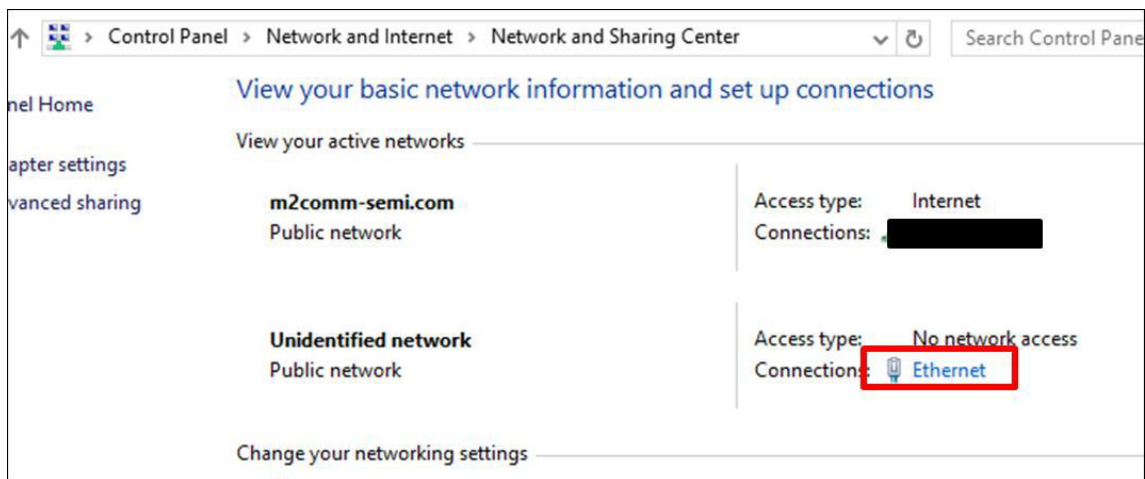
ELSA-E Demo System IP setting:

The ELSA-E demo system is designed to use either a static IP address for a single Access Point or a dynamic IP address when multiple Access Points are installed.

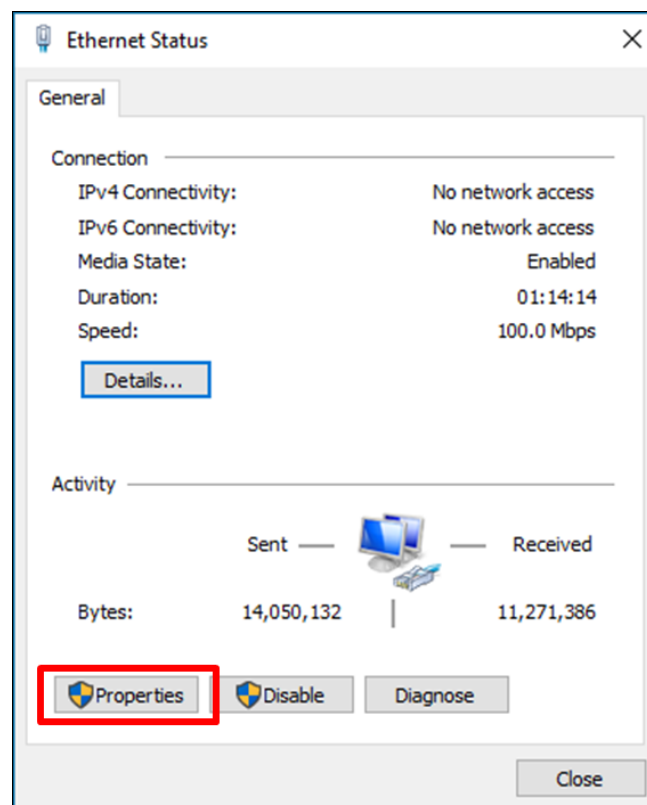
IP Address Configuration (Static IP):

Ensure that your Access Point is connected to your computer.

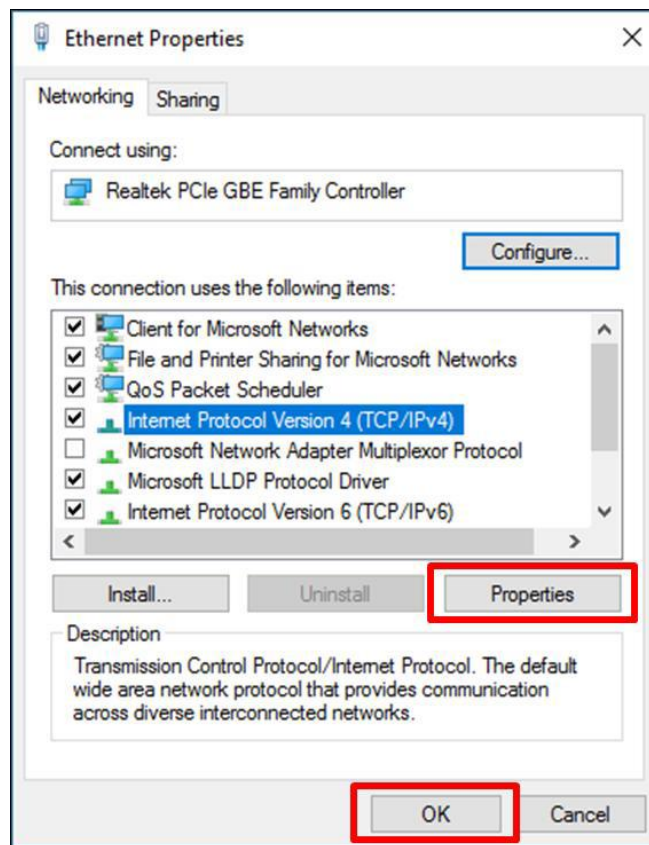
The Access Point comes pre-configured with a default IP Address (192.168.2.1). It's necessary to modify the IP Address of the Ethernet port on your computer that is cabled to the M2COMM Access Point so that they can communicate with one another.



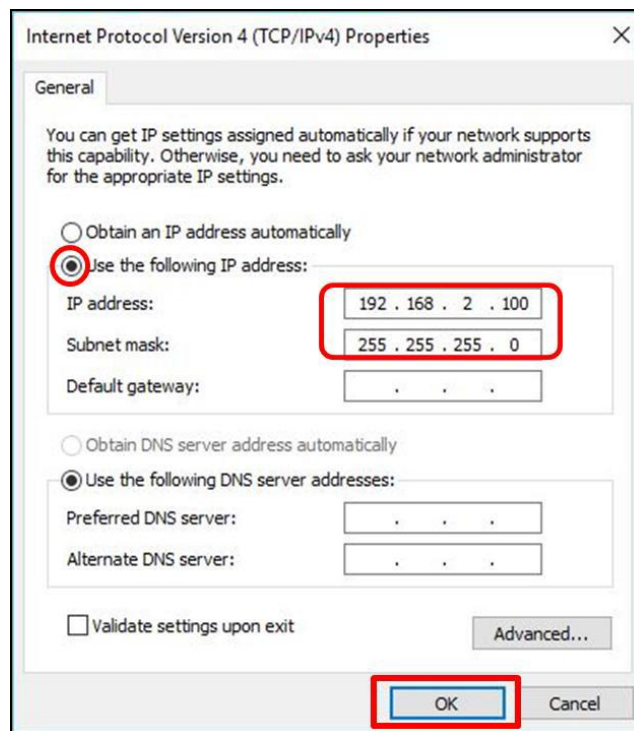
Using your computer mouse, click on Ethernet



Select Properties



Select Internet Protocol Version 4 (TCP/IPv4), and select Properties



Check Use the following IP address and enter information shown above. Select OK to apply new settings

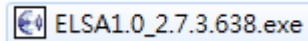
IP Address Configuration (Dynamic IP):

For installations that contain multiple Access Points an external TCP/IP Ethernet hub is required. And please contact M2COMM for further details.

M2COMM ELSA-E Demo Installation:

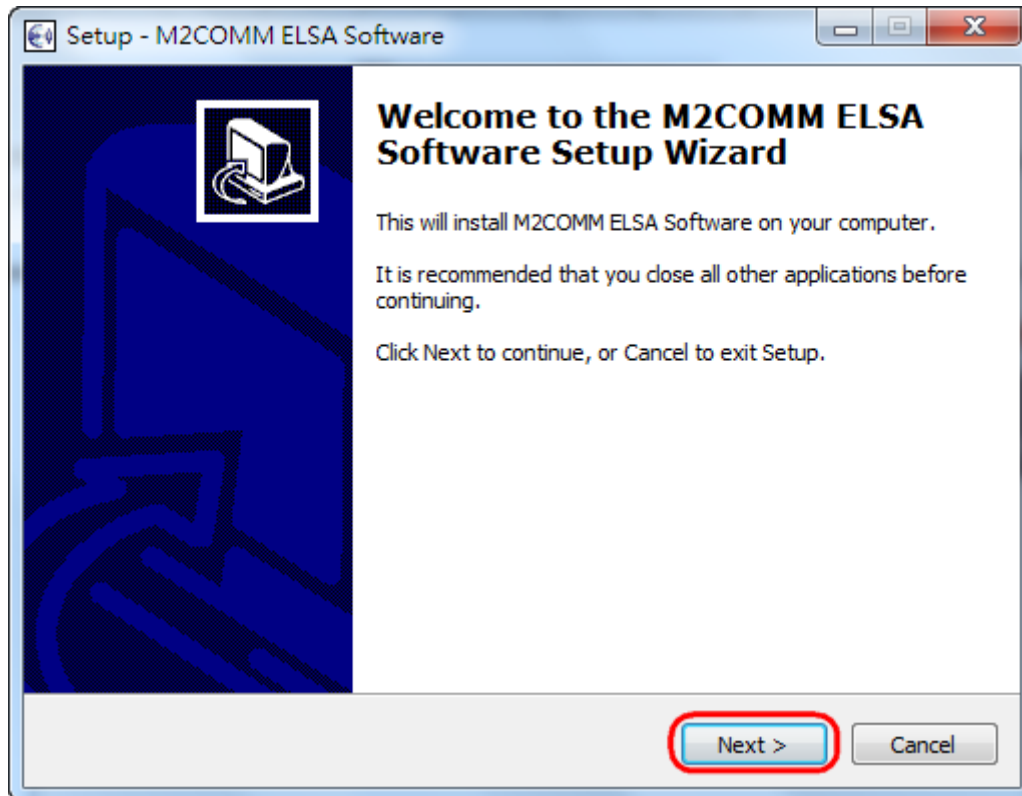
Software Installation:

Put below two executable files into the same folder on your computer. And double-click the “**ELSA1.0_2.7.3.638.exe**” file to begin the installation.

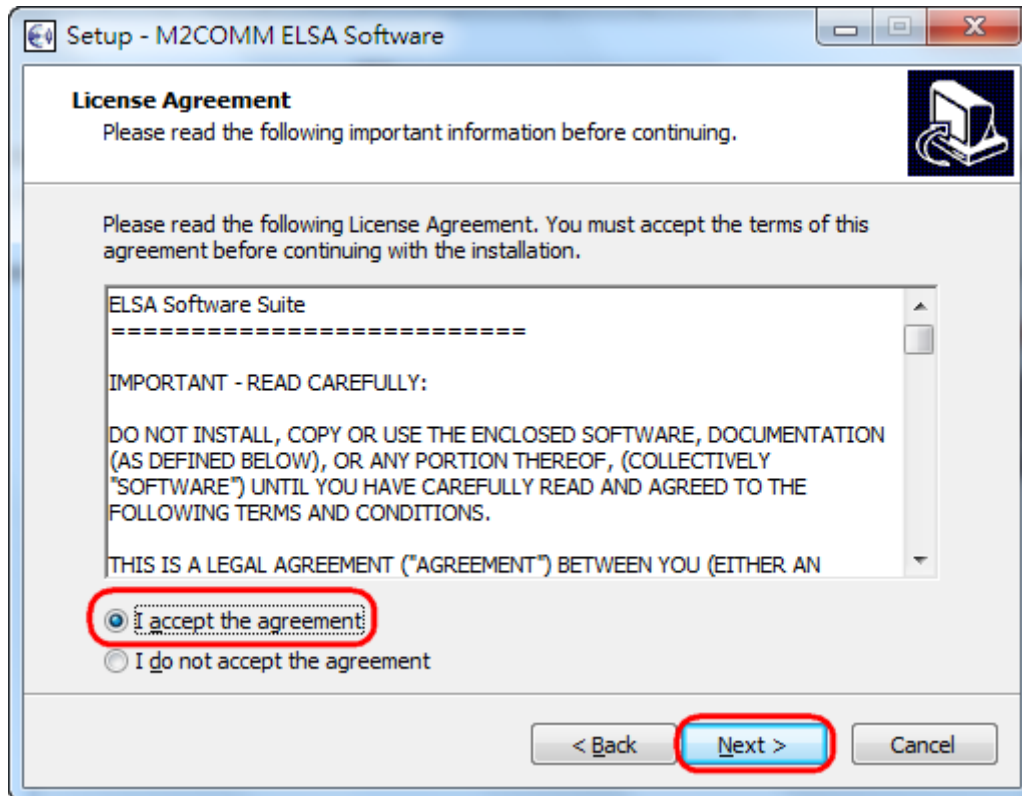


You may be asked for permission to allow the program to make changes to your computer; you must agree to this to enable installation to start.

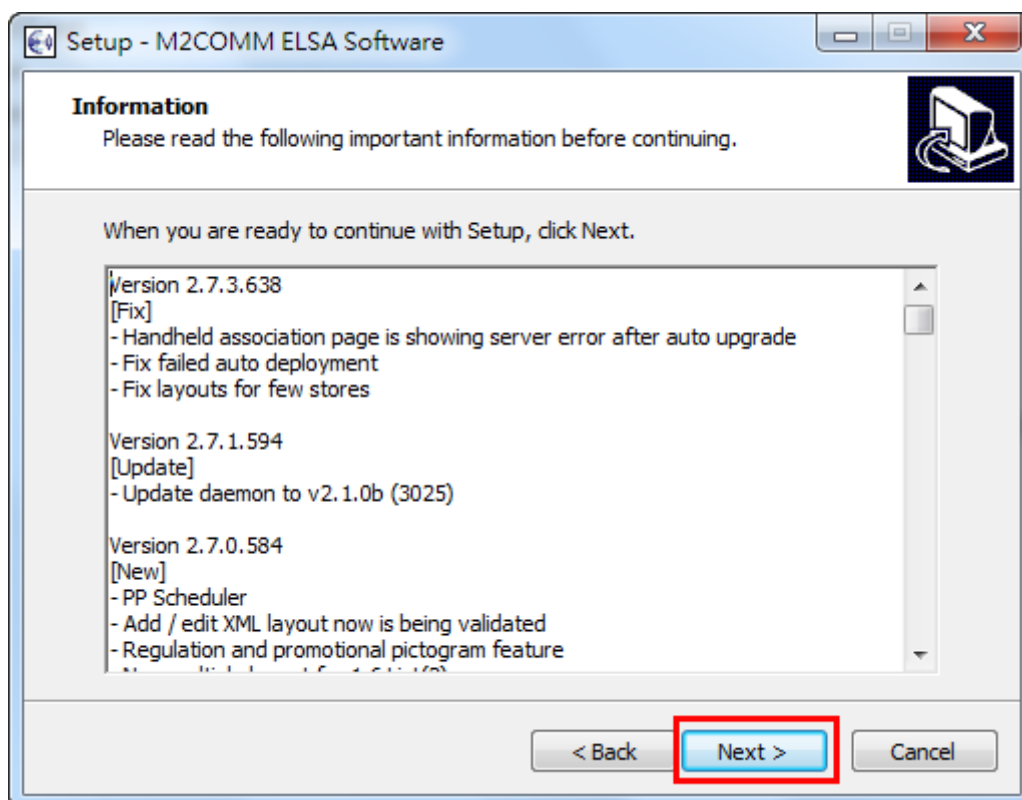
Follow the on-screen instructions to finish the installation process.



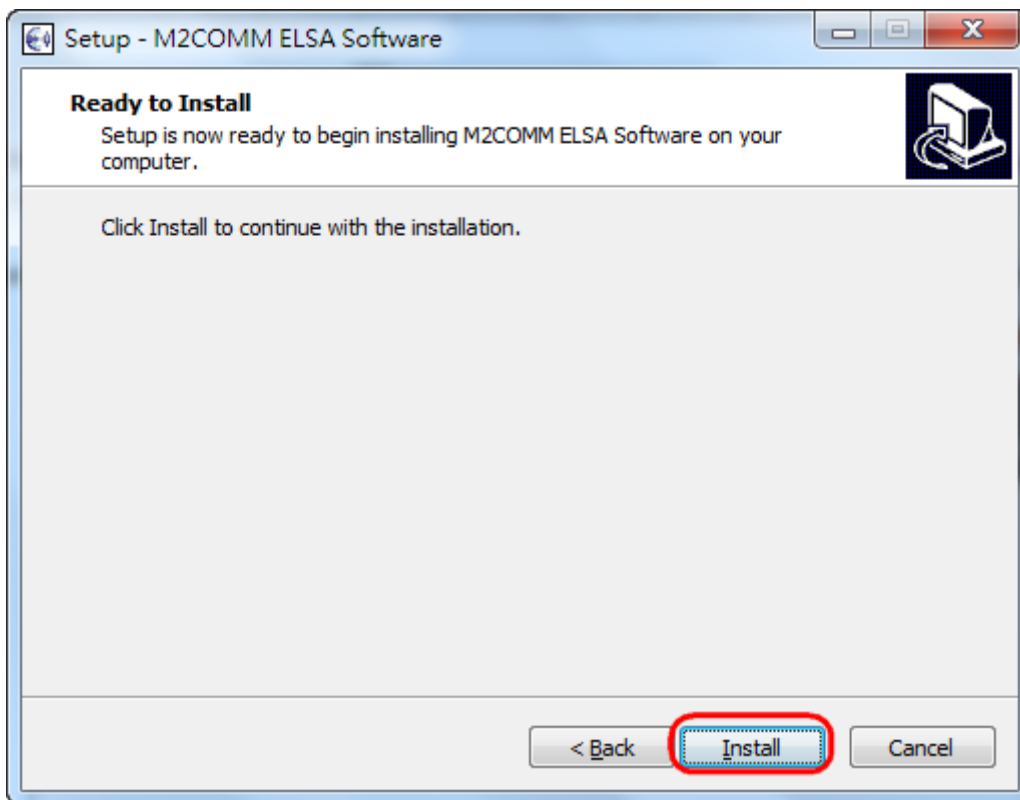
Click **Next>** to continue



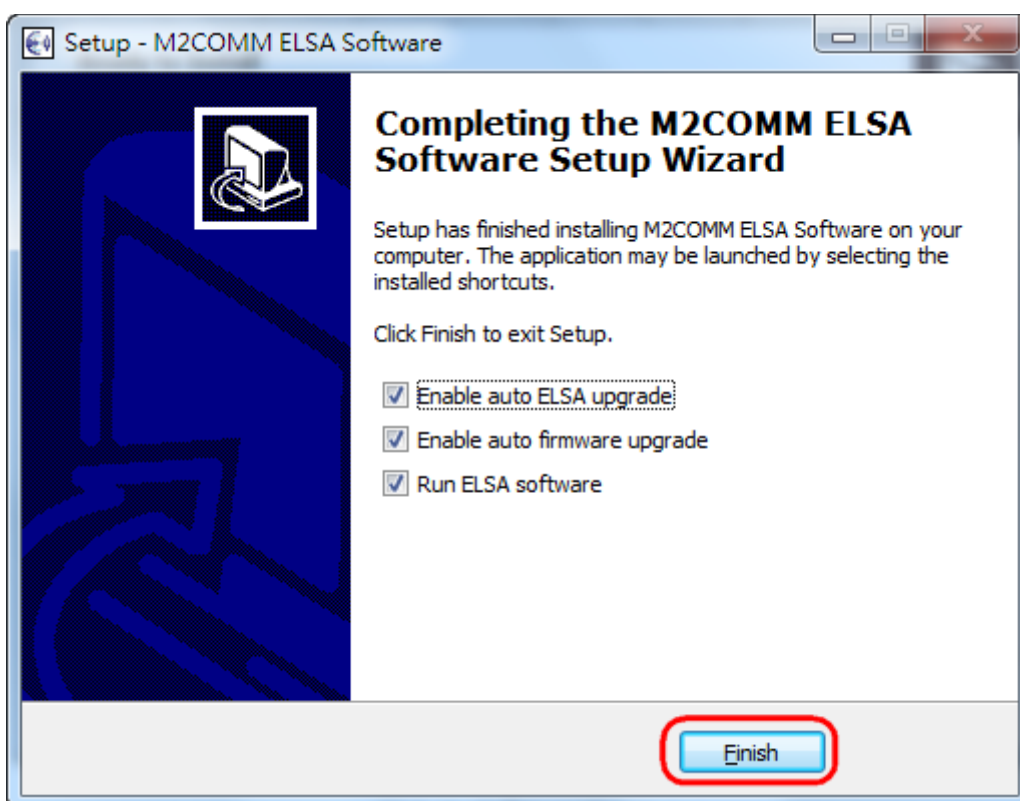
Select **Accept**, and Click **Next>** to continue



Click **Next** to continue



Click **Install** to start

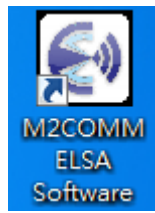


Click **Finish** to complete the installation

The ELSA-E Demo system has now been installed and executed on your computer. The icon will be hidden inside the toolbar, and you should now be able to locate this icon on your computer screen, by right click.

Open in browser (M2COMM ELSA Software)
Show M2COMM ELSA Software console
Turn off M2COMM ELSA Software

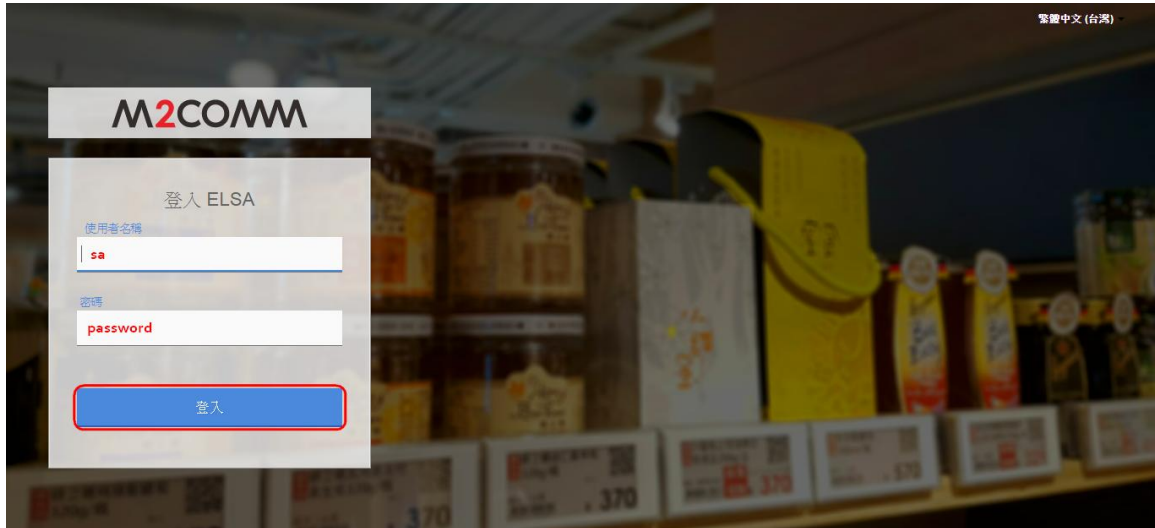
And you can also launch the ELSA software by double click the icon on desktop.



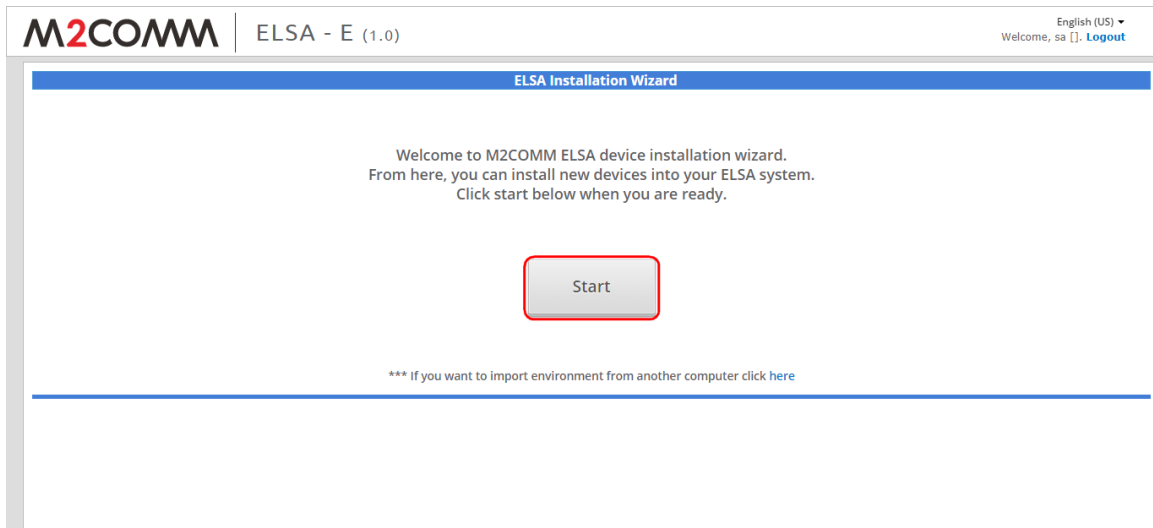
Setting Up the ELSA-E 7.5" ESL

Ensure that the Access Point is connected to your computer that the Router(s) and 7.5" ESL are installed throughout your premises and are powered on.

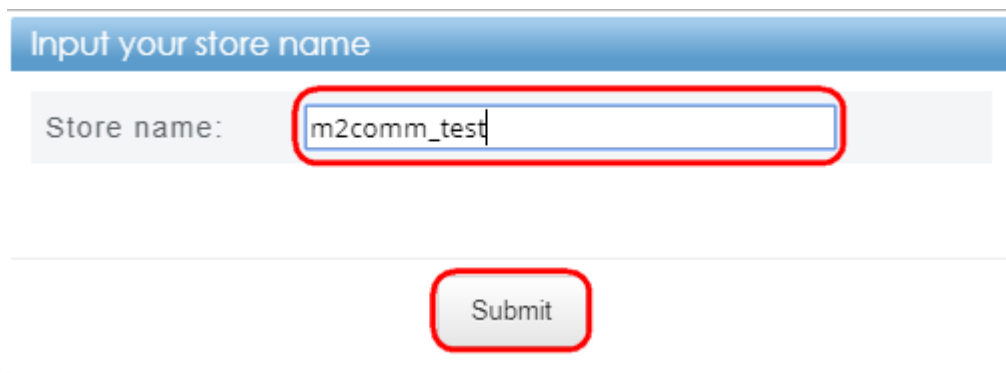
- **Install the AP**



Input “**sa**” for user name and “**passw0rd**” for password, to access the ELSA web.



Press “**Start**” to initial the ELSA system installation process.

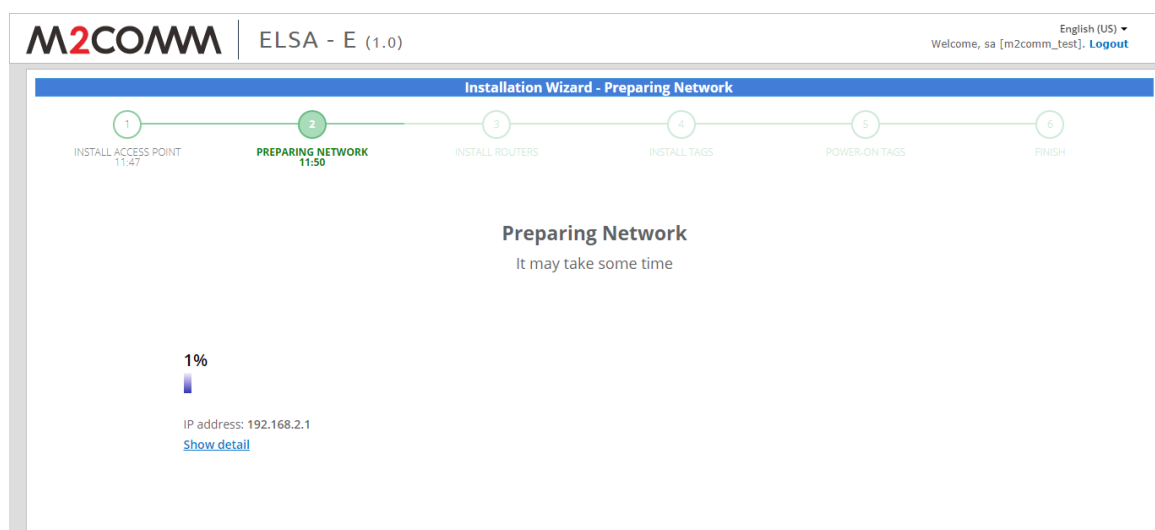


Input the store name, and press **Submit**



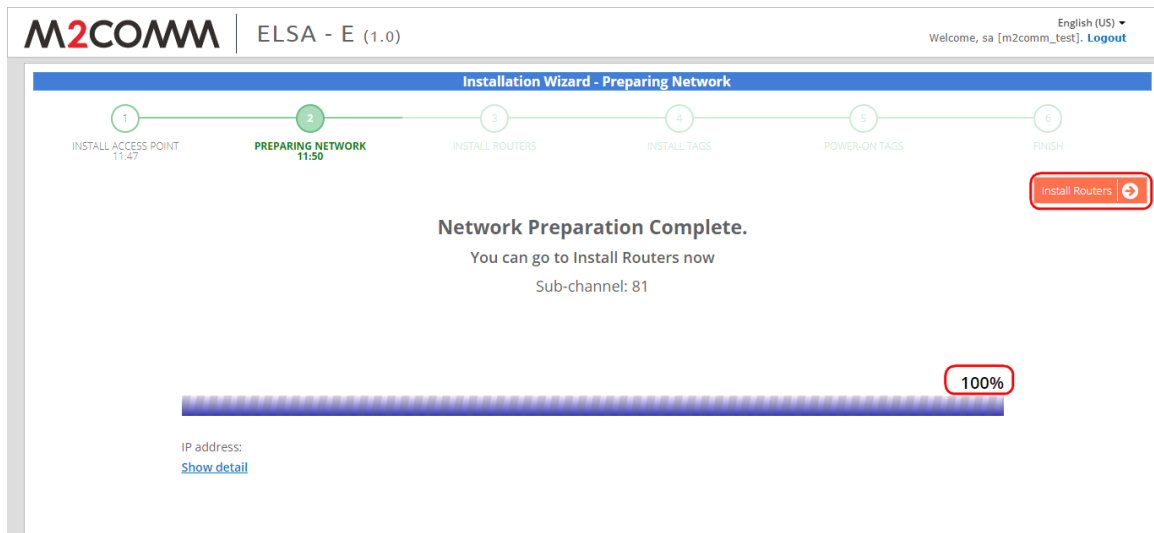
ELSA system will find the connected AP, and press **“Yes”** to confirm

- **Preparing the Network**



ELSA system will start to find the available wireless channel to use, and the whole process will take 1 hour.

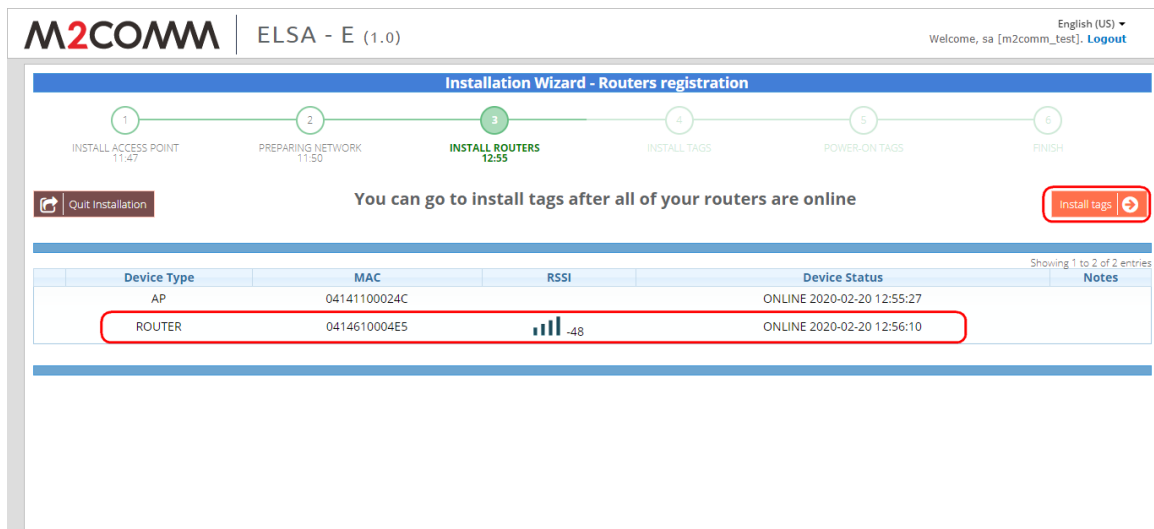
Press “Show detail” for more information.



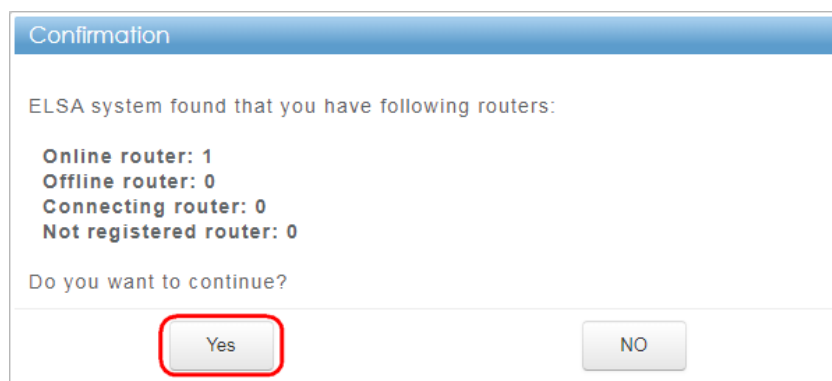
Press **“Install Routers”** for next step, when the progress bar reaches to 100%

- **Install Router**

Power on the Router

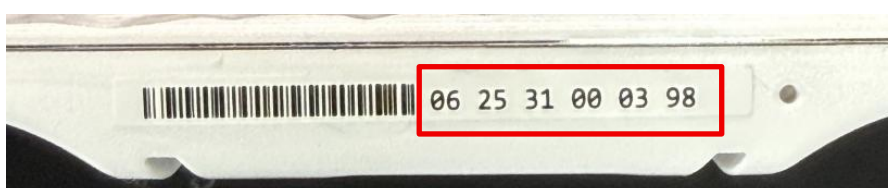
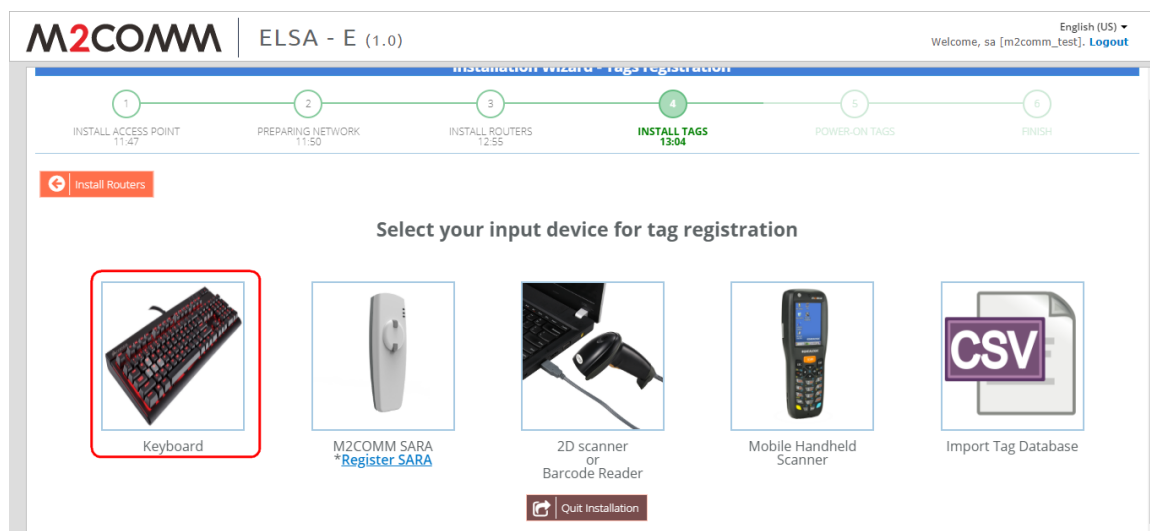


After the ELSA system install the Router automatically, press **“Install tags”**

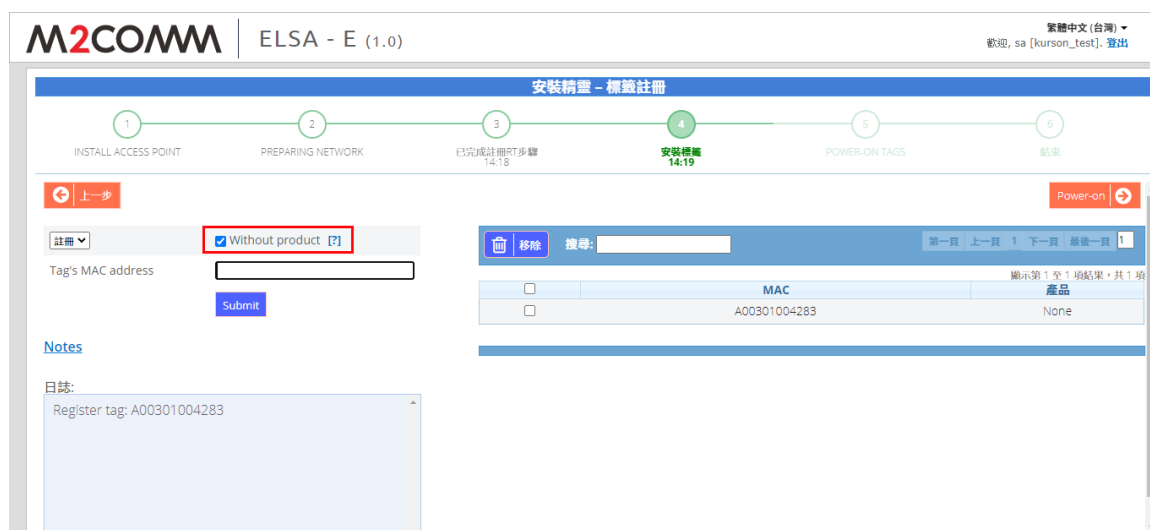


Press **“Yes”** to confirm the device status and enter to next step

- **Install Tags**



Select **"Keyboard"** to input the MAC address posted on the bottom side of the ESL



Check **"Without product"** and Press **"Power-on"**

- **Power ON Tags**



Select **"Auto power-on"**

Wait for ESL to show the **"wakeup"** page

- **Finish**



After several minutes, the ESL will change display to “**registered**” page

確認

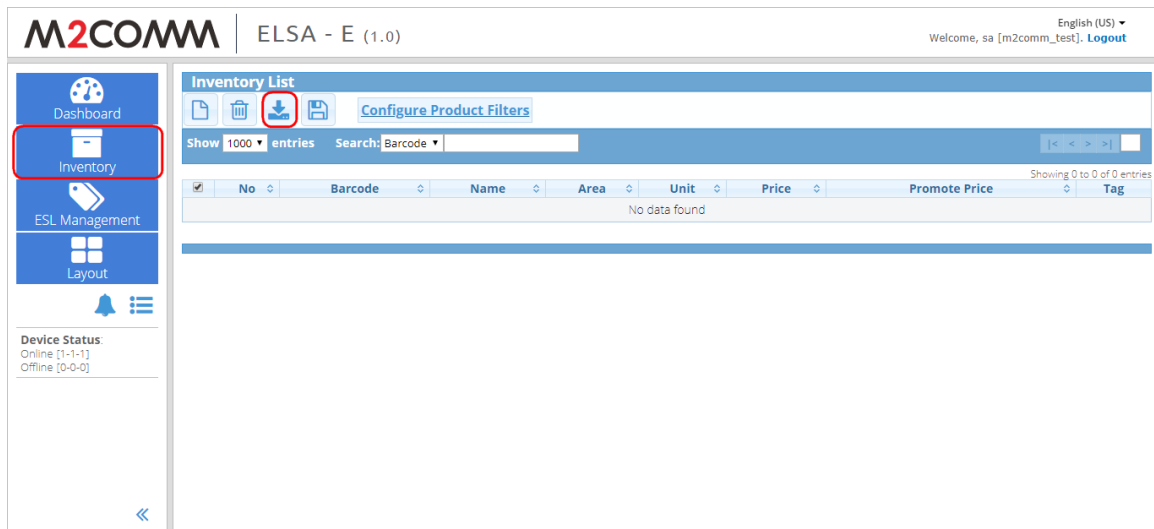
Total routers to be registered	0
Registered routers - unfinished	0
Registered routers - finish	0
Total tags to be registered	1
Registered tags - unfinished	0
Registered tags - finish	1
Total SARA to be registered	0
Registered SARA - unfinished	0
Registered SARA - finish	0

finish

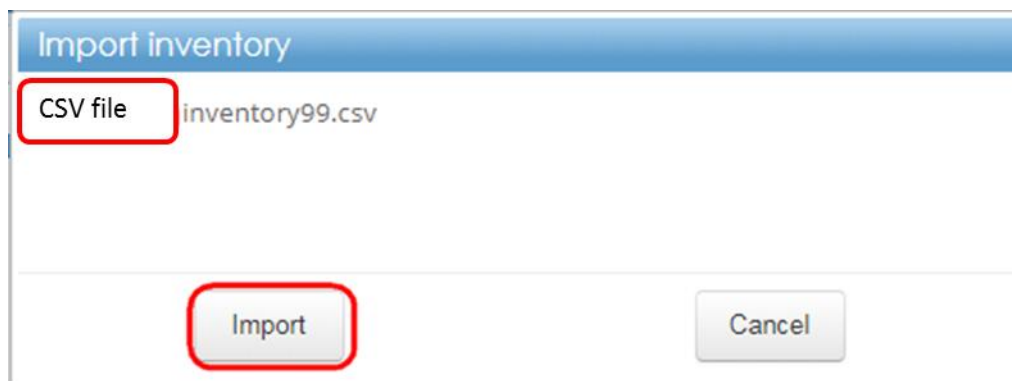
Press “**Finish**” to leave the installation wizard and back to ELSA dashboard

Show the image on ELSA-E 7.5" ESL

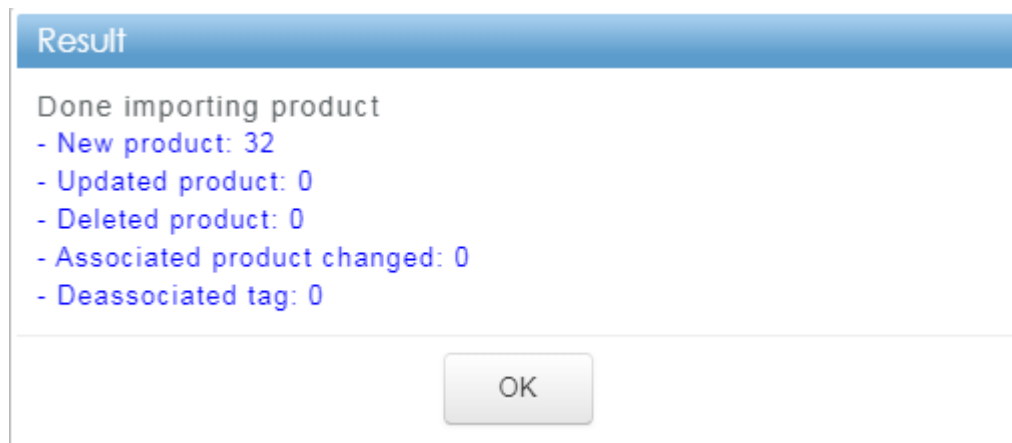
Load the CSV file to import the inventory list first.



Switch to “**Inventory**” page, and press “**Import**”



Select the CSV file, “**inventory99.csv**” and press “**Import**”



Press “**OK**” to finish the inventory importing

ESL Management												
Show 100 entries Search: Profile 7.5												
Showing 1 to 1 of 1 entries												
ONLINE												
☐	MAC	Parent MAC	Device Type	Product Associated	Profile	Layout	Battery Level	Last Job Status	Device Status	Wake-up Mode	Network Mode	RSSI
☐	90739B23EB9D	0415610002B8	TAG	09876	Large 7.5" 4-Color	eng_75v2_4c	3.249	SUCCESS 2026-01-30 13:57:08	ONLINE 2026-04-23 18:10:54			-70

Switch to “**ESL Management**” page, and double click the 7.5”ESL

Edit ESL

Page 1

Single product

Profile

Large 7.5" 4-Color

Product

09876

Layout

eng_75v2_4c

Rotation

0°

Save

Cancel

Select any one of the product, and press “**Save**”

ESL Management												
Show 100 entries Search: Profile 7.5												
Showing 1 to 1 of 1 entries												
ONLINE												
☐	MAC	Parent MAC	Device Type	Product Associated	Profile	Layout	Battery Level	Last Job Status	Device Status	Wake-up Mode	Network Mode	RSSI
☐	90739B23EB9D	0415610002B8	TAG	09876	Large 7.5" 4-Color	eng_75v2_4c	3.249	SUCCESS 2026-01-30 13:57:08	ONLINE 2026-04-23 18:10:54			-70

Waiting for the job status become from “**Processing**” to “**SUCCESS**”

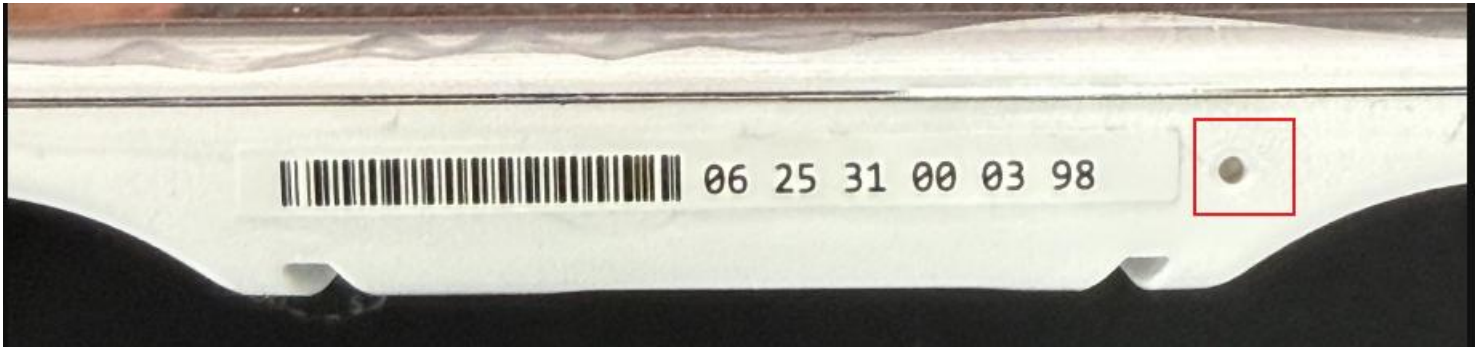
20



7.5" ESL shown with image

How to Display FCC ID Label

1. **Wake Up the Tag:** Ensure the EPD is not blank or shows a "sleep mark" (red/black square in the top-left corner).
 - If "sleep mark" present, use a tool to press the button ONCE inside the tag via the side opening.
2. **Switch Screens:** Press side button TWICE to reach the authentication screen.
 - The number of operations is based on the current display screen but does not exceed two times.



7.5" ESL internal button



7.5" ESL FCC ID display results

Battery Caution:

The elements of the **instructional safeguard** shall be as follows:

- element 1a: not available
- element 2: “Do not ingest battery, Chemical Burn Hazard” or equivalent wording
- element 3: the following or equivalent text
[The remote control supplied with] This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- element 4: the following or equivalent text
Keep new and used batteries away from children
If the battery compartment does not close securely, stop using the product and keep it away from children.
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and a human body.

NCC Statement:

低功率射頻器材技術規範

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

M2COMMUNICATION Inc. 17 Floor, No. 32 Gaotie 2nd Road, Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

Tel: +886 3 657 8939

Fax: +886 3 657 6909

<http://www.m2comm.co>

SALES AND SUPPORT: info@m2comm.co