User Manual

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cMT-3103 Wireless Network Settings Guide

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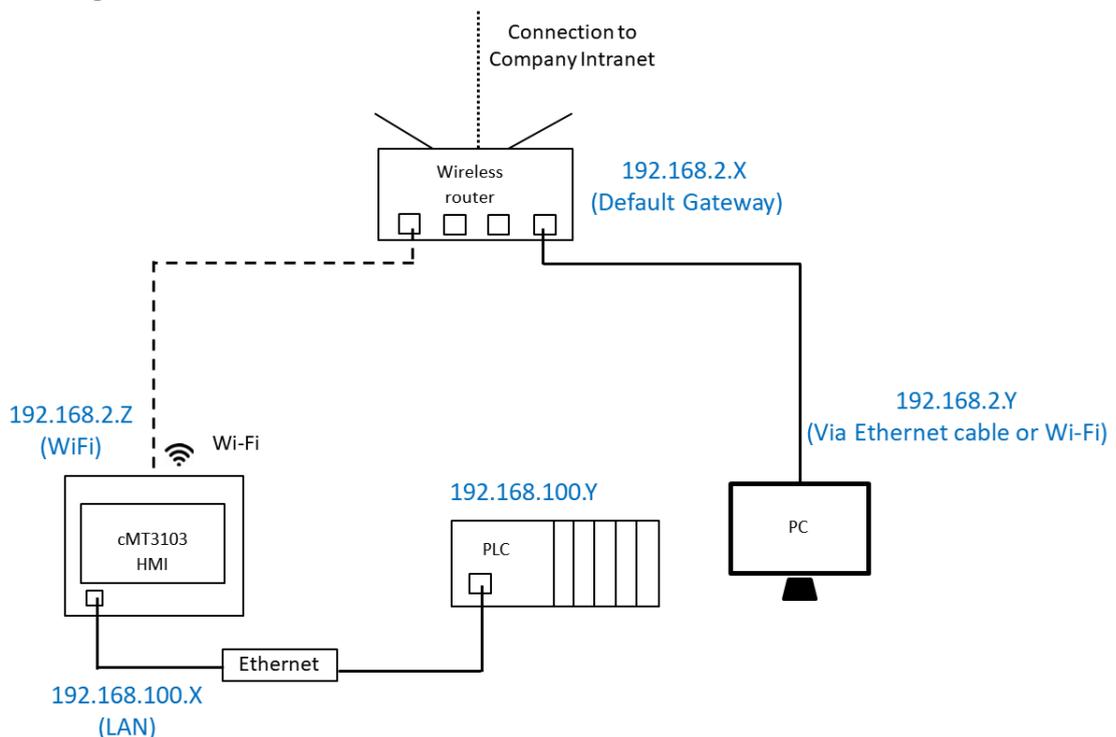# Table of Contents

1. Introduction

A cMT-3103 HMI has wireless connectivity that allows users to connect to a local wireless access point via Wi-Fi. It supports the following frequency bands, IEEE802.11b, IEEE802.11g, and IEEE802.11n. The cMT-3103 is equipped with one independent Ethernet port which isolates the device network from the company/factory network. Both **Wi-Fi** and the ethernet port (**LAN**) are WAN (Wide Area Network) which allows the HMI to connect to a public network through a router.

LAN

Connect your cMT-3103 HMI to a router by wireless connection as the diagram shown below.
By default the IP address of **Wi-Fi** and the **LAN** port are assigned using DHCP. The IP addresses of **WiFi** and **LAN** must be configured to the different subnets.
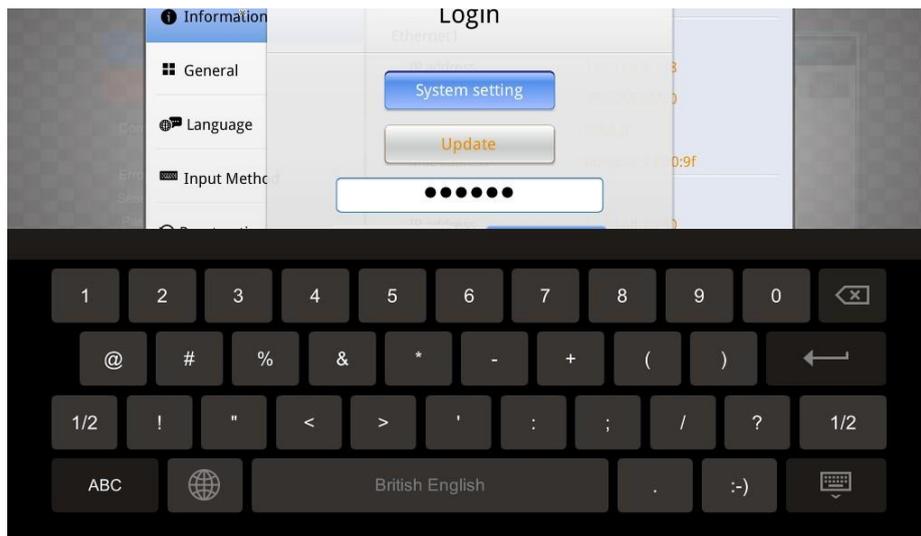
2. Wireless Connection Setup via Touch Screen

Press the system toolbar button at the upper left of the screen to open Setup.

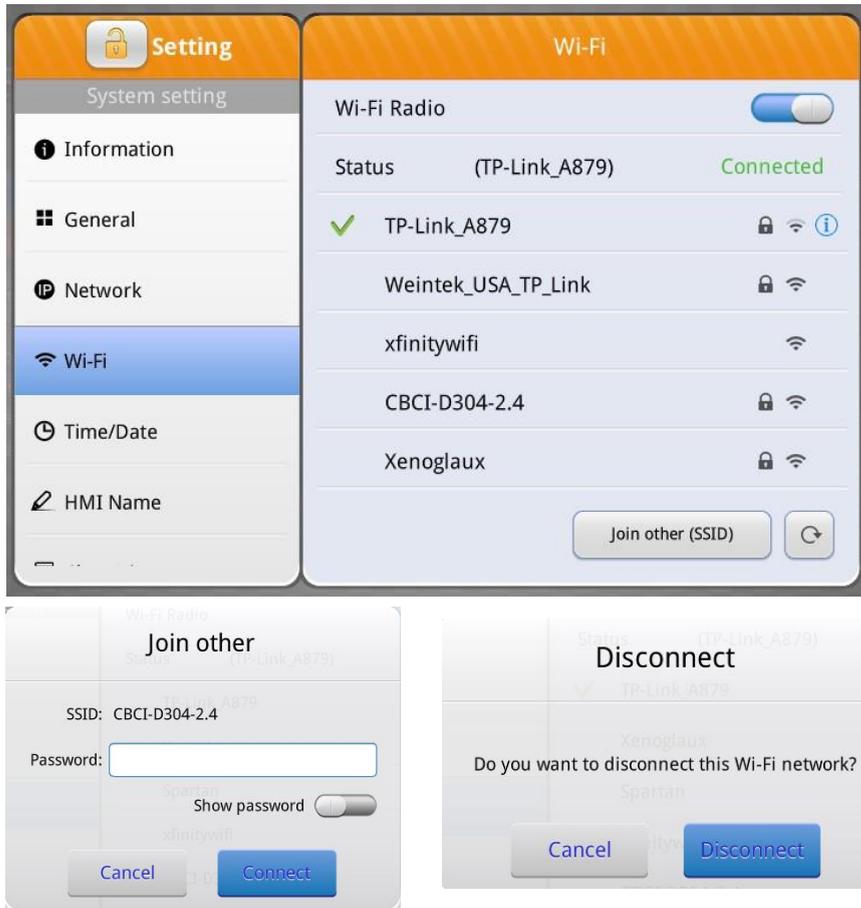This page shows general information about the cMT-3103 HMI and network information.

To access Wi-Fi settings, click on the lock icon at the top left corner. There are two different levels of password protection. Select [System Setting] and enter **System Setting** password. By default the password of System Setting is 111111.

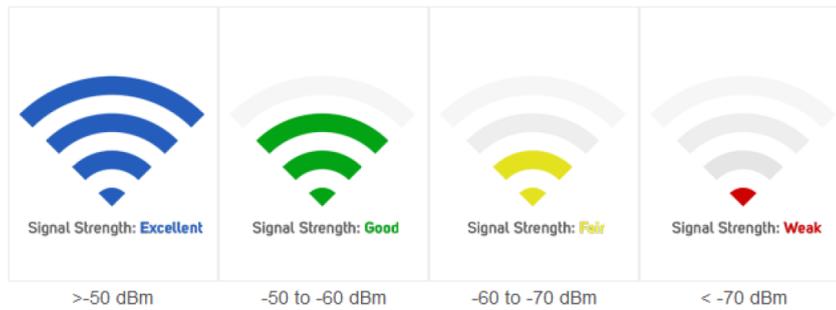After clicking on [OK], the icon will become unlocked.

Wi-Fi-
Go to [Wi-Fi] tab and enable [Wi-Fi Radio]. Scroll up and down to select an access point and enter its password. Once the wireless connection succeeds, the status will display "Connected."

Name	Descriptions
Wi-Fi Radio	Turn Wi-Fi radio ON or OFF.
Status	It shows one of the statuses including Stopped, Connecting, Retrying, or Connected.
Access Point List	A list of currently available access points.
Refresh	It can refresh the Access Points list.
Join other(SSID)	It allows users to manually add an access point and connect with.
SSID	SSID name of the wireless access point to connect with.
Password	Enter the password. The password can either be visible or invisible when entering the password.
Connect/Disconnect	Connect or disconnect from a wireless router.

The signal strength is classified into four levels: Excellent, Good, Fair, and Weak, as shown below.

Signal Strength: **Excellent**	Signal Strength: **Good**	Signal Strength: **Fair**	Signal Strength: **Weak**
>-50 dBm	-50 to -60 dBm	-60 to -70 dBm	< -70 dBm

You can tap the blue information icon to open the setting page of the access point. Then, set the IP address to static IP. The IP addresses of WiFi and LAN must be on the separate subnets. Click [OK] to confirm the setting.
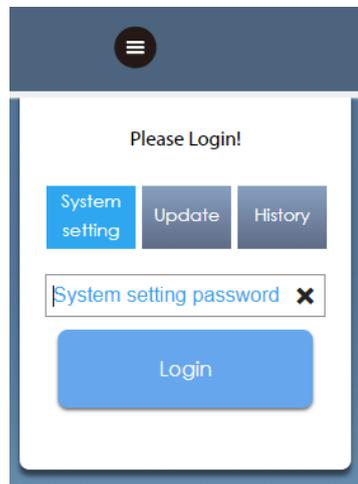

Network-

Set the IP address of LAN port on the Network tab. By default the IP address of LAN port is DHCP. You can set the IP address to static IP. The IP addresses of WiFi and LAN must be on the separate subnets. After changing the settings, click [OK] to confirm.
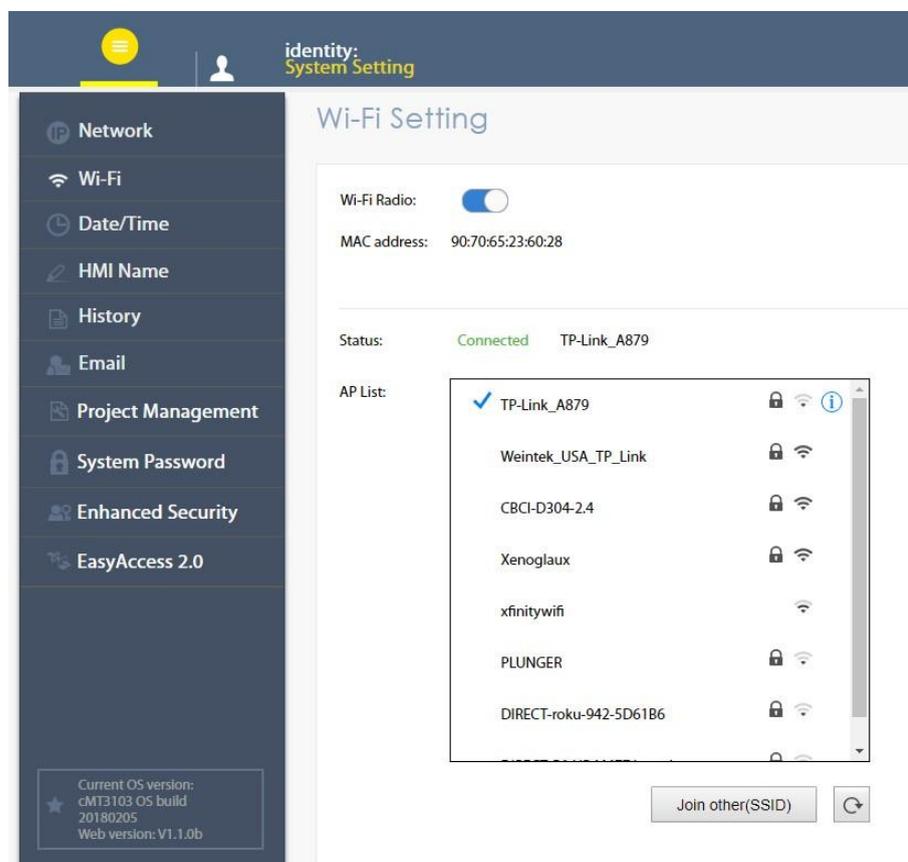
3. Wireless Connection Setup via Web Interface

Configuring the wireless connection of the cMT-3103 HMI via a web browser is available. Before configuration, connect your cMT-3103 HMI (LAN) to a router via an Ethernet cable. Open a web browser (IE, Chrome, or Firefox) and enter the IP address of the cMT-3103 HMI. For example, enter 192.168.1.15. Select an identity and enter its password.
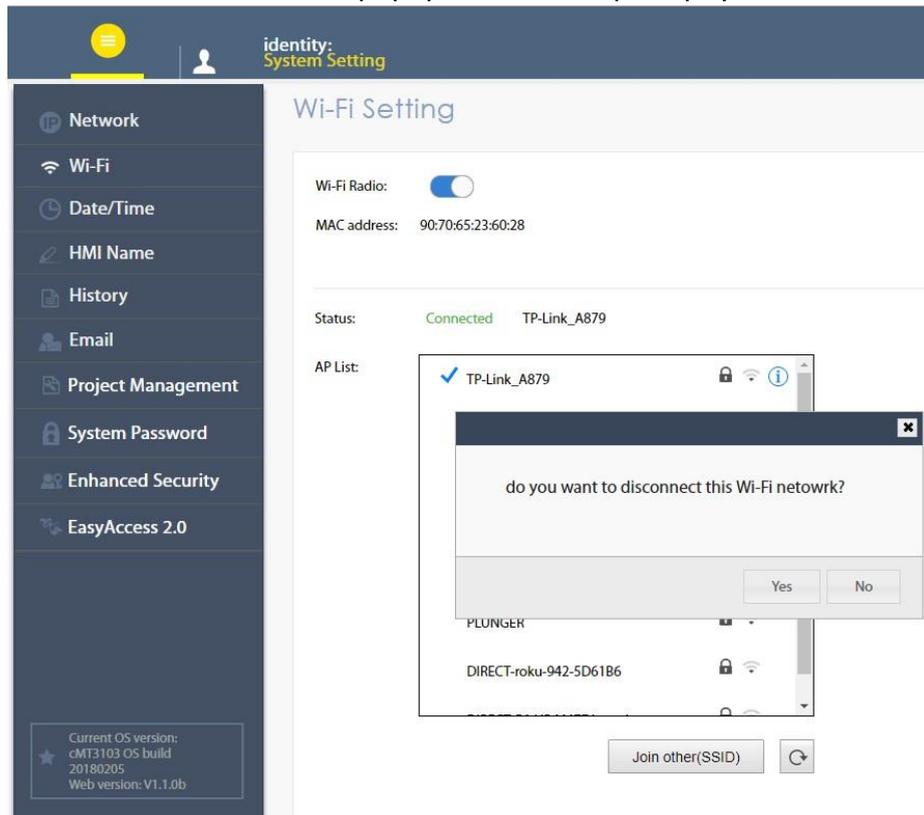

On the [Wi-Fi] tab, enable [Wi-Fi Radio] and then select an access point. Once the wireless connection succeeds, the status will display "Connected."
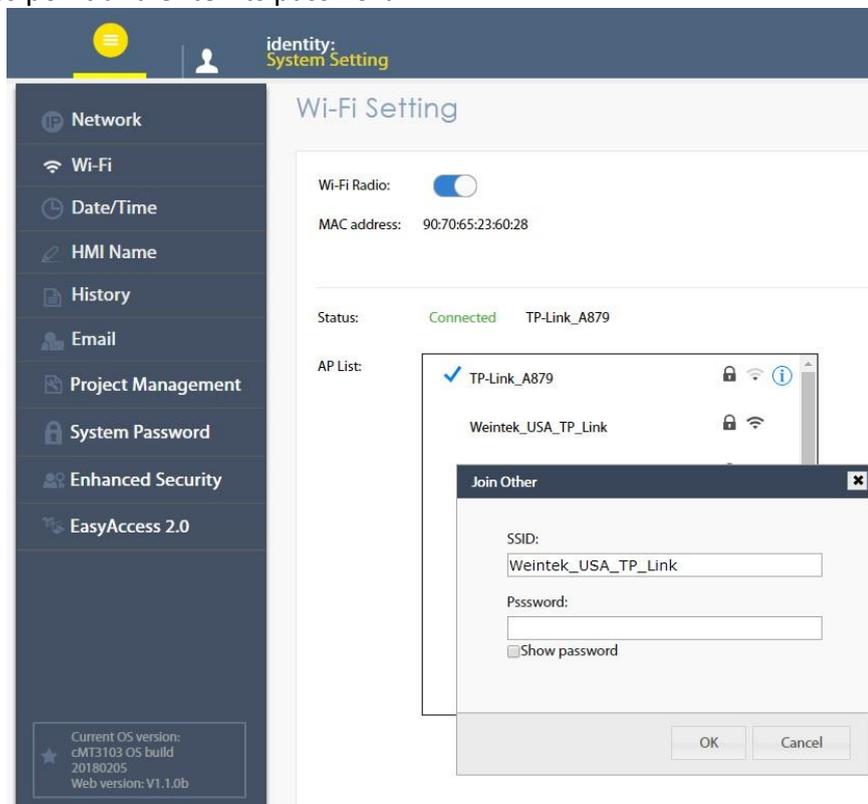
How to Switch the access point to others
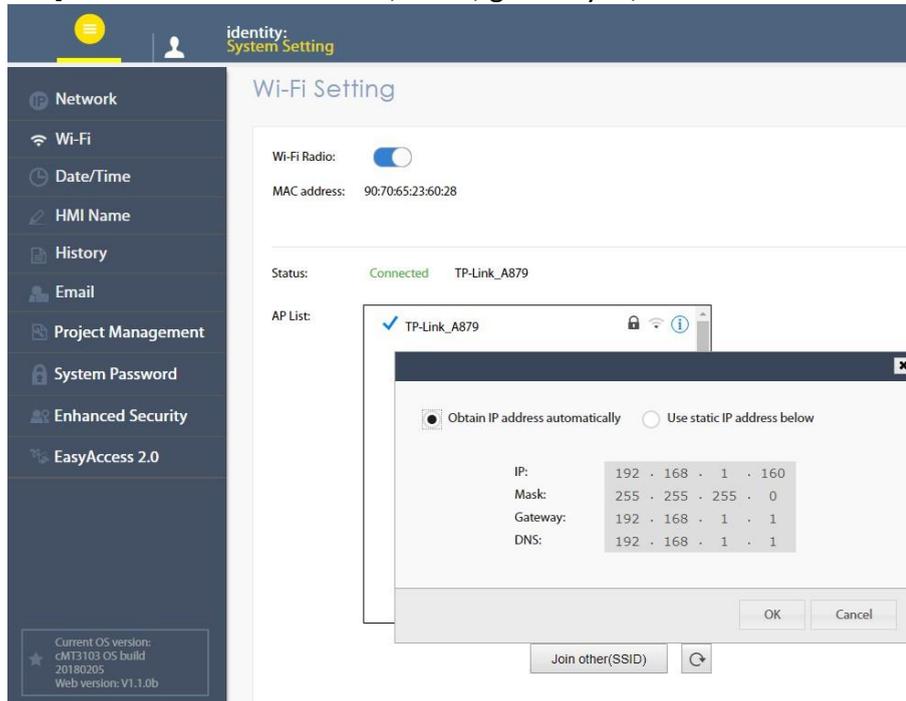Click on the current wireless connection. The popup window will prompt you to disconnect the connection.

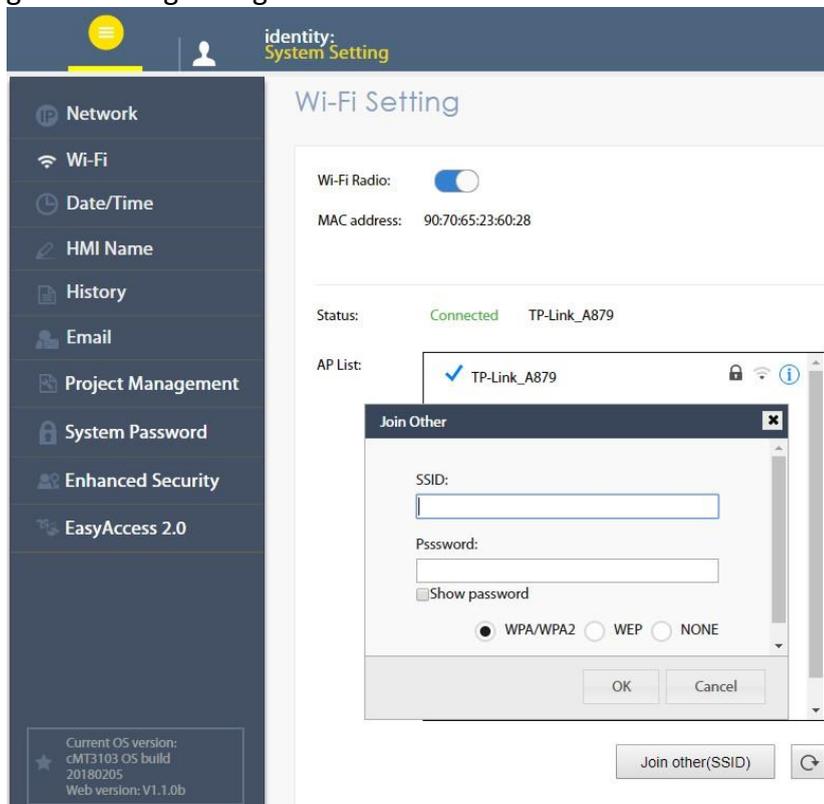Select another access point and enter its password.

How to set the DHCP to static IP

Setting to static IP is available. To use the static IP address, click the blue information icon. Choose [Use static IP address below] and enter the IP address, mask, gateway IP, and DNS.

[Join other SSID]- You can manually connect the HMI to an access point that is not displayed on the AP list. Make sure the Wi-Fi signal is strong enough.
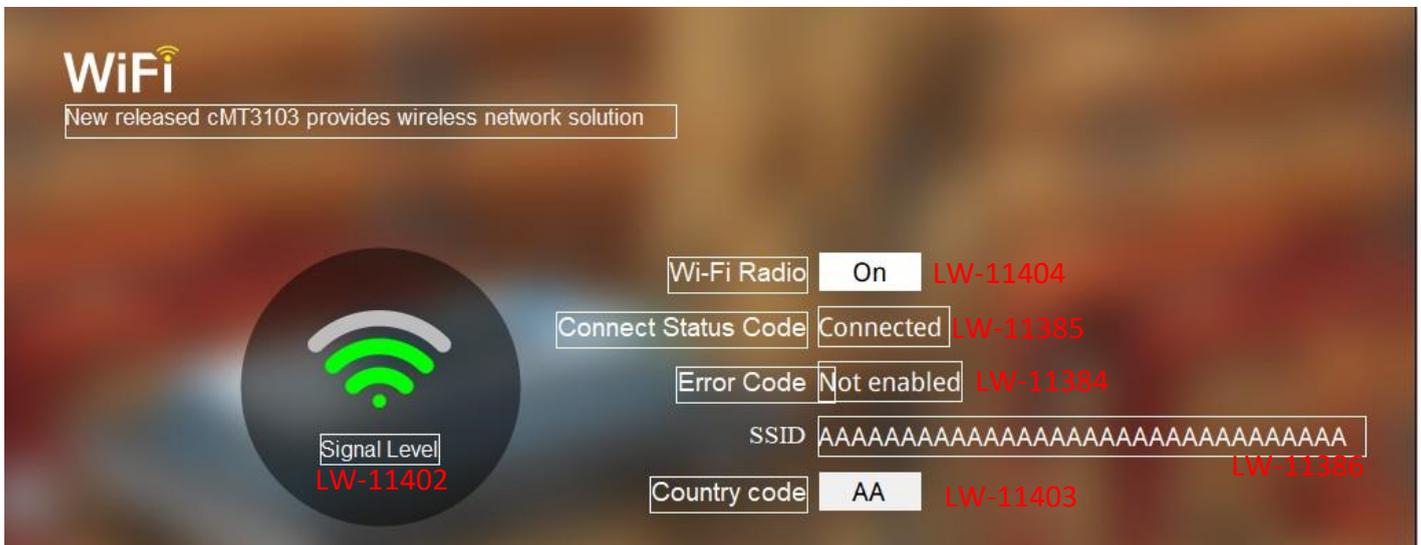
3. System Registers

Register No.	Descriptions	Associated object	Readable/ Writable
LW-11383(16bit)	Wi-Fi control (1:Disconnected, 2:Connect, 3:Popup Wi-Fi setting dialog)	Multi-State Switch	R/W
LW-11384(16bit)	Error code (0:No error, 1:No such device, 2:Wi-Fi radio is off)	Word Lamp	R
LW-11385(16bit)	Status (0:Stopped, 1:Connecting, 2:Retrying, 3:Connected)	Word Lamp	R
LW-11386(16 words)	Connected SSID	ASCII	R
LW-11402(16bit)	Signal strength level(0:None, 1:Weak, 2:Fair, 3:Good, 4:Excellent) *Note 1	Word Lamp	R
LW-11403(16bit)	Country code *Note 2	ASCII	R/W
LW-11404(16bit)	Wi-Fi radio (0:Off, 1:On)	Multi-State Switch	R/W

*Note 1: The signal strength is classified into four levels: 1. Weak (<-70 dBm), 2. Fair (-60 ~ -70 dBm), 3. Good (-50 ~ -60 dBm), 4. Excellent (>-50 dBm)

*Note 2: Enter Wi-Fi country code in ASCII for uppercase letters, the setting will take effect after rebooting HMI. Wireless regulations vary from country to country. The country code selection affects the list of channels of the wireless radio.

Reference Link:
Weintek Labs website: http://www.weintek.com

Founded in 1996, WEINTEK LABS is a global-leading HMI manufacturer and is dedicated to the development, design, and manufacturing of practical HMI solutions. WEINTEK LAB's mission is to provide quality, customizable HMI-solutions that meet the needs of all industrial automation requirements while maintaining customer satisfaction by providing "on-demand" customer service. WEINTEK LABS brought their innovative technology to the United States in 2016, WEINTEK USA, INC., to provide quality and expedient solutions to the North American industrial market.

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