

Weintek USA, Inc. www.WeintekUSA.com (425) 488-1100

User Manual

cMT-3103 Wireless Network Settings Guide

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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.



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.

G Setting	Information	
Information	OS. version	20180205
Uniormation	Ethernet1	
General	IP address	192.168.0.138
	Subnet mask	255.255.255.0
Language	Gateway	0.0.0
Input Method	Mac address	00:0c:26:11:30:9f
	Wi-Fi	
⊙ Reset options	IP address	192.168.1.160
	Subnet mask	255.255.255.0
	Gateway	192.168.1.1
	Mac address	90:70:65:23:60:28

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."

Setting	Wi-Fi	
System setting	Wi-Fi Radio	
Information	Status (TP-Link_A879)	Connected
General	V TP-Link_A879	🔒 후 (j)
Network	Weintek_USA_TP_Link	£ \$
🗢 Wi-Fi	xfinitywifi	ŝ
() Time/Date	CBCI-D304-2.4	6 ?
	Xenoglaux	6 ?
HMI Name	Join o	ther (SSID)
Join other Disconnect		
SSID: CBCI-D304-2.4		
Password:	Do you want to discon	nect this Wi-Fi network?
Show password xindywin Cancel	Cancel	Disconnect

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.



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.

Setting		i Ok	
System setting	Obtain an IP address automatically		
Information	IP address	192.168.1.160	
General			
Network	Subhet mask	255.255.2	
중 Wi-Fi	Gateway	192.168.1.1	
	DNS	192.168.1.1	
G Time/Date			
🖉 HMI Name			
—			

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.

Setting	▲ Cancel Ether	net1 Ok
System setting	MAC address	00:0c:26:11:30:9f
1 Information	Obtain an IP address automatically	
General	ID address	192 168 0 128
Network	IF dutiess	192.108.0.138
奈 Wi-Fi	Subnet mask	255.255.255.0
(9 Time/Date	Gateway	0.0.0.0
0	DNS	0.0.0.0
HMI Name		

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."

	lentity: ystem Setting		
Network	Wi-Fi Set	ting	
奈 Wi-Fi			
🕒 Date/Time	MAC address:	90:70:65:23:60:28	
🖉 HMI Name			
History		C	
🎥 Email	Status:	Connected IP-LINK_A879	
🕙 Project Management	AP List:	TP-Link_A879	A 🗢 🛈 📩
System Password		Weintek_USA_TP_Link	₽ ବ
Enhanced Security		CBCI-D304-2.4	₽ ≎
EasyAccess 2.0		Xenoglaux	₽ ≎
		xfinitywifi	÷
		PLUNGER	a 🜩
		DIRECT-roku-942-5D61B6	a 🗢
1			0 -
Current OS version: cMT3103 OS build 20180205 Web version: V1.1.0b		Join d	other(SSID)

How to Switch the access point to others

Click on the current wireless connection. The popup window will prompt you to disconnect the connection.

	identity: System Setting
🕞 Network	Wi-Fi Setting
奈 Wi-Fi	Wi Ei Dadio
🕒 Date/Time	MAC address: 90:70:65:23:60:28
🖉 HMI Name	
History	Server Constraint TO Link A070
🏊 Email	
🖹 Project Management	AP List: ✓ TP-Link_A879
System Password	×
Enhanced Security	do you want to disconnect this Wi-Fi netowrk?
EasyAccess 2.0	
	Yes No
	PLUNGEK .
	DIRECT-roku-942-5D6186 🔒 🌩
	0 ~ T
current OS version: cMT3103 OS build 20180205 Web version: V1.1.0b	Join other(SSID)

Select another access point and enter its password.

D Network	Wi-Fi Setting	
奈 Wi-Fi	W6 Fi Dadia	
Date/Time	MAC address: 90:70:65:23:60:28	
2 HMI Name		
History	C	
Email	Status: Connected IP-Link_A8/9	
Project Management	AP List: V TP-Link_A879	🔒 후 🚺 📩
System Password	Weintek_USA_TP_Link	ê
Enhanced Security	Join Other	
EasyAccess 2.0	SSID:	
	Weintek_USA_TP_Link	
	Psssword:	
	Show 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.

🛓 💧	dentity: bystem Setting
Network	Wi-Fi Setting
중 Wi-Fi ᠿ Date/Time	Wi-Fi Radio: MAC address: 90:70:65:23:60:28
HMI Name History	Status: Connected TP-Link_A879
Email Project Management	AP List. ✓ TP-Link_A879
System Password	Obtain IP address automatically Use static IP address below
EasyAccess 2.0	IP: 192 168 1 160 Mask: 255 255 255 0 Gateway: 192 168 1 1 DNS: 192 168 1 1
Current OS version: cM13103 OS build 20180205 Web version: V1.1.0b	OK Cancel Join other(SSID)

[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.

	identity: System Setting
🕞 Network	Wi-Fi Setting
奈 Wi-Fi	W6 F5 Dedies
Date/Time	MAC address: 90:70:65:23:60:28
🖉 HMI Name	
History	Stature Connected TP Link A970
Email	
🔄 Project Management	AP List: ✓ TP-Link_A879 🖬 🤤 ()
System Password	Join Other
Enhanced Security	SSID:
EasyAccess 2.0	Pesswort
	Show password
Current OS version: cMT3103 OS build 20180205 Web version: V1.1.0b	Join other(SSID)

3. System Registers

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

WiFi	
New released cMT3103 provides wireless netw	rork solution
	Wi-Fi Radio On LW-11404
	Connect Status Code Connected LW-11385
	Error Code Not enabled LW-11384
Signal Level	SSID AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
LW-11402	Country code AA LW-11403

Reference Link:

Weintek Labs website: <u>http://www.weintek.com</u>

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.

6219 NE 181s Street STE 120 Kenmore, WA 98028 425-488-1100