

cMT-SVR-200 Wireless Network Settings Guide

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Chapter 1 – Introduction

A cMT-SVR-200 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-SVR-200 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) support WAN (Wide Area Network) connections, which allows the HMI to connect to a public network through a router.



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.

The cMT-SVR-200 is equipped with a set of DIP switches. Using the DIP switches triggers the corresponding functions. For example, the IP address will be reset to default IP when SW1 is turned ON and the HMI is cycled power. The small button near the DIP switches is used to reboot the HMI.

	\square
Ц	Й
ON	2

SW1	SW2	Function
OFF	OFF	Normal mode
ON	OFF	Reset Ethernet IP settings
OFF	ON	Boot loader mode
ON	ON	Reset to factory default

Chapter 2 — Wi-Fi Setup via Web Interface

To configure the wireless connection of the cMT-SVR-200 HMI via a web browser, connect

the cMT-SVR-200 to a PC with RJ-45 crossover Ethernet cable, as the diagram shown below.



On the PC, right-click on Ethernet adapter of the PC and select Properties. You can set your

PC to static IP mode from Internet Protocol Version 4 TCP/IP V4 > General tab. Select

Use the following IP address and set up an IP address. This IP address must be unique and

non-conflicting. If this is the HMI's initial setup, set the IP address to 169.254.0.X, where X is

any number between 2 and 254, and set the submask to 255.255.255.0.



How to know the IP address of the cMT-SVR-200

Launch Utility Manager > Select cMT Series. Select Analysis & Testing > Reboot.



On the HMI Name tab, click on Search All. The IP address of the cMT-SVR-200 will be

displayed on the right box. Then close this window.

nnection		
Ethernet		
	I Name	
HMI :	cMT-2C4E	
-	Search	
	Search All	
	Search and Change IP	
Password : 1	111111 Mask	



How to set up the wireless connection

Open a web and enter the IP address of the cMT-SVR-200. Select System setting and enter

its password. The default password is 111111.

C)	
F	Please Login	0
System setting	Update	History
System s	etting pass	word 🗙
	Login	

On Wi-Fi tab, enable Wi-Fi Radio. Click on an access point from the AP List. The popup

window will prompt you to enter its password. Once the wireless connection succeeds, the

status will display "Connected."



Wi-Fi Radio:		
MAC address:	90:70:65:23:60:28	
Status:	Connected TP-Link_A879	
AP List:	✓ TP-Link_A879	A 🗟 (j)
	Weintek_USA_TP_Link	@ 奈
	CBCI-D304-2.4	a
	Xenoglaux	ê
	xfinitywifi	÷
	PLUNGER	a 후
	DIRECT-roku-942-5D61B6	6 후

Join another 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.

Wi-Fi Radio	
MAC addre	ss: 90:70:65:23:60:28
Status:	Connected TP-Link_A879
AP List:	✓ TP-Link_A879 🔒 🤶 (j́)
L	oin Other 🗶
	SSID:
	Psssword:
	Show password
	WPA/WPA2 WEP NONE

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.
AP List	A list of currently available access points.
Refresh icon	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. (Using System register LW-11402(16bit))

Maple Systems



How to switch the access point to others

Click on the current wireless connection. Choose Yes on the popup window to disconnect

the connection.

MAC address:	90:70:65:23:60:28	
Status:	Connected TP-Link_A879	
AP List:	✓ TP-Link_A879	⋒
	do you want to disco	onnect this Wi-Fi netowrk?
		Yes No
	PLUNGER	ш ·

Select another access point and enter its password.



Wi-Fi Radio:		
MAC address:	90:70:65:23:60:28	
Status:	Connected TP-Link_A879	
AP List:	✓ TP-Link_A879	₽ ╤ (j) [^]
	Weintek_USA_TP_Link	₽ 🗢
	Join Other	
	SSID:	
	Weintek_USA_TP_I	Link
	Psssword:	
	Show password	
		OK Cancel

How to set to static IP

Setting a 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.

Wi-Fi Radio:										
MAC address:	90:70:65:23:60:	28								
Status:	Connected	TP-Link_A879								
AP List:	V TP-Link	_A879		∻ (j)	^					
					1					
		10			1					
		Obtain IP address automa	tically () Use	stat	ic <mark>I</mark> P a	ddre	ess belo	w	
		Obtain IP address automa IP:) Use:					w	
			192			1	•	160	w	
		IP:	192	· 168 · 255	•	1 255	•	160 0	w	
		IP: Mask:	192 255 192	· 168 · 255	•	1 255 1	•	160 0 1	w	

Chapter 3 — Hotspot

This feature is available in OS version 20191206 or greater. You can find the current OS

version on the web interface once you log on.

id	dentity: ystem Setting	Logout
🕒 Date/Time	Ethernet	
🖉 HMI Name	MAC address : 00:0c:26:17:1e:48	
History		
🏊 Email	IP Address Ethernet	
🖹 Project Management	Obtain in address addomadcany Ose static in address below	
System Password	IP: 0 . 0 . 0 . 0	
Security	Mask: 0 . 0 . 0	
EasyAccess 2.0	Gateway: 0 . 0 . 0 DNS: 0 . 0 . 0	
Misc		
	Save	
Current OS version: cMT-SVR-200 OS build 20191206 Web version: V1.1.24		

If the OS version is lower than 20191206, follow the steps to upgrade the OS of cMT-SVR-

200.

- 1. Copy the MTfirmware.bin file to root folder of SD card.
- 2. Flip DIP Switch 2 of cMT-SVR-200 to ON position.

	SW1	SW2	Mode	
	OFF	OFF	Normal Mode	
U1 2 ON	ON	OFF	Restore Ethernet IP Settings	
	OFF	ON	Boot Loader Mode	
	ON	ON	Restore Factory Default	

- To monitor the update progress, run HyperTerminal software on your PC and set the parameters to 115200, 8, N, 1. Connect your computer with cMT-SVR-200 via COM1 RS-232 port.
- Insert the SD card to cMT-SVR-200 and reboot to update the OS image. The update succeeds when HyperTerminal displays "Starting Kernel" about two minutes after reboot.
- 5. Power off cMT-SVR-200 and then flip DIP Switch 2 of cMT-SVR-200 back to OFF position.

This feature allows other Wi-Fi devices to connect to cMT-SVR-200 without a separate Wi-Fi

router. A Wi-Fi device, such as a tablet, can launch cMT-Viewer applications to monitor the

project of the cMT-SVR-200. The company/factory network can connect to the ethernet port

of cMT-SVR-200 to gain internet access.



How to Set up Hotspot

Open a web browser and enter the IP address of the cMT-SVR-200. Select System setting

and enter its password. The default password is 111111.



On Wi-Fi tab, click on Hotspot.



	identity: System Setting
Network	Wi-Fi Setting
奈 Wi-Fi	
🕒 Date/Time	1. WI-FI Hotspot
🖉 HMI Name	 2.
History	Hotspot:
🎥 Email	
🔊 Project Management	SSID: SVR200
System Password	Password: 12345678
Enhanced Security	
EasyAccess 2.0	Wi-Fi will act as an access point (AP) and share Ethernet with connected Wi-Fi devices. Devices may use cMT Viewer (if supported) to connect and view.
Misc	

Set up the SSID of hotspot and its password. Then turn ON the Hotspot switch.

Wi-Fi Hotsj	pot	
Hotspot:		
SSID:	SVR200	
Password:	12345678	

While the Hotspot is enabled, the SSID and password cannot be changed.

Wi-Fi	Hotspot			
Hotspot		D		
SSID:		SVR200		
Passwoi	rd:	12345678		

Your Wi-Fi device can scan the access point.



Enter the password and connect to the access point. Then launch cMT-Viewer to control the

project.



The default IP of the hotspot is 10.255.254.1. The DHCP pool will assign one of IP addresses

to the Wi-Fi device from 10.255.254.2 to 10.255.254.254 once connected. The maximum Wi-

Fi devices that are allowed to connect to the hotspot is 10.

The supported security protocols to secure wireless network is WPA-PSK (MIX). No

encrypted mode and WEP are not supported.

In cMT-Viewer, tap the + button to access the project.







Chapter 4 — System Registers

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

*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 wireless radio.

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	ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNE
	Wi-Fi Radio On Investore
	Connect Status Code Connected LW-11385
	Error Code Not enabled
Signal Level	SSID AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
LW-11402	Country code AA LW-1130



Register No.	ter No. Descriptions		Readable/
		object	Writable
LB-12666 (1 bit)	Disable/enable Wi-Fi Hotspot	Toggle Switch	R/W
LB-12667 (1 bit)	Refresh Wi-Fi Hotspot setting	Toggle Switch	R/W
LW-12006 (16	Wi-Fi Hotspot SSID	ASCII	R/W
words)			
LW-12022 (32	Wi-Fi Hotspot password	ASCII	R/W
words)			





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