

# User Manual

## M02 Startup Guide

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## Chapter 1 Overview

### 1.1 Specification



### WiFi Expansion Module

#### Feature

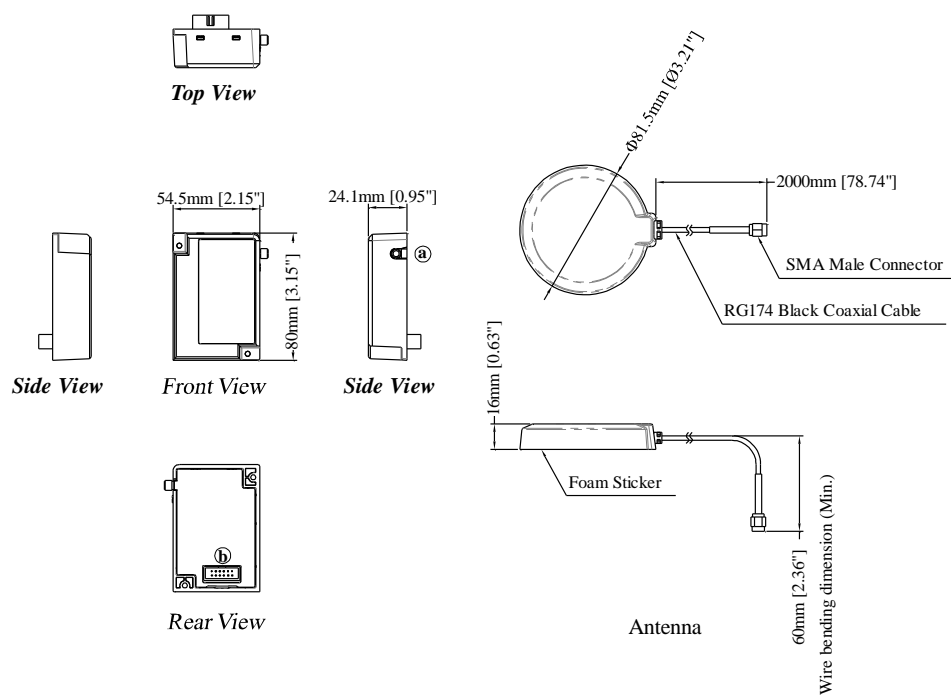
- Modular design, adds wireless connectivity to HMI.
- WiFi standards supported include: IEEE 802.11b/g/n.
- Compact design and little protrusion when installed on HMI, which avoid space issue in control cabinet installation.
- The magnetic mount antenna included in the package can be installed at an optimal location to maximize signal strength.



Demo for use with HMI  
(HMI needs to be purchased separately)

Network	WiFi	IEEE 802.11 b/g/n
		802.11b: max 19.76 dBm
I/O Port	SMA Female Connector	1
	Male Connector to HMI	1
Power	Input Power	5VDC
	Power Consumption	900mA@5VDC (powered by HMI)
	Voltage Resistance	500VAC (1min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC
Specification	PCB Coating	N/A
	Enclosure	Plastic
	Dimensions WxHxD	54.5 x 80 x 24.1 mm
	Weight	Approx. 80 g
	Mount	HMI connector + diagonal screw fastening
Environment	Protection Structure	M02: IP20 Compliant
	Storage Temperature	Antenna: IP66 Compliant
	Operating Temperature	-20° ~ 60°C (-4° ~ 140°F)
	Relative Humidity	0° ~ 55°C (32° ~ 131°F)
	Altitude (Air Pressure)	10% ~ 90% (non-condensing)
	Vibration Endurance	Below 3,000 meters (70.1kPa)
Certificate	CE	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
	UL	CE marked
Software	EasyBuilder Pro	cULus Listed
		V6.05.02 or later versions

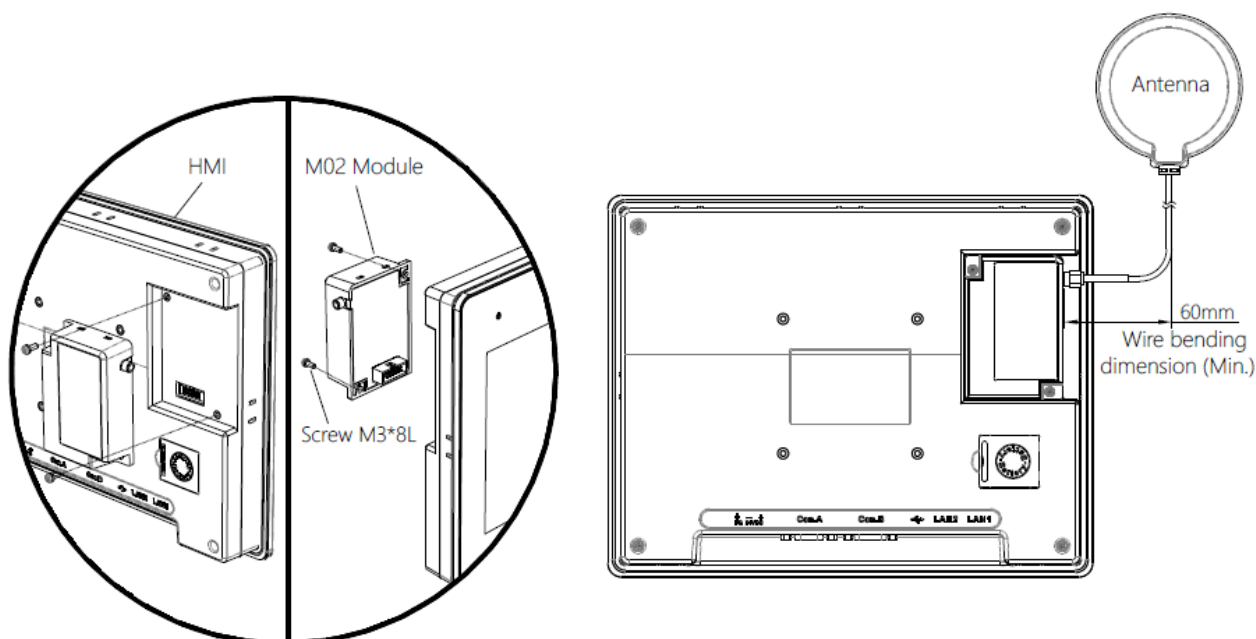
## 1.2 Dimensions



<b>a</b>	SMA Female Connector
<b>b</b>	Male Connector to HMI

### 1.3 Installation

M02 does not support hot swapping by design. Please connect it to HMI before powering up HMI.



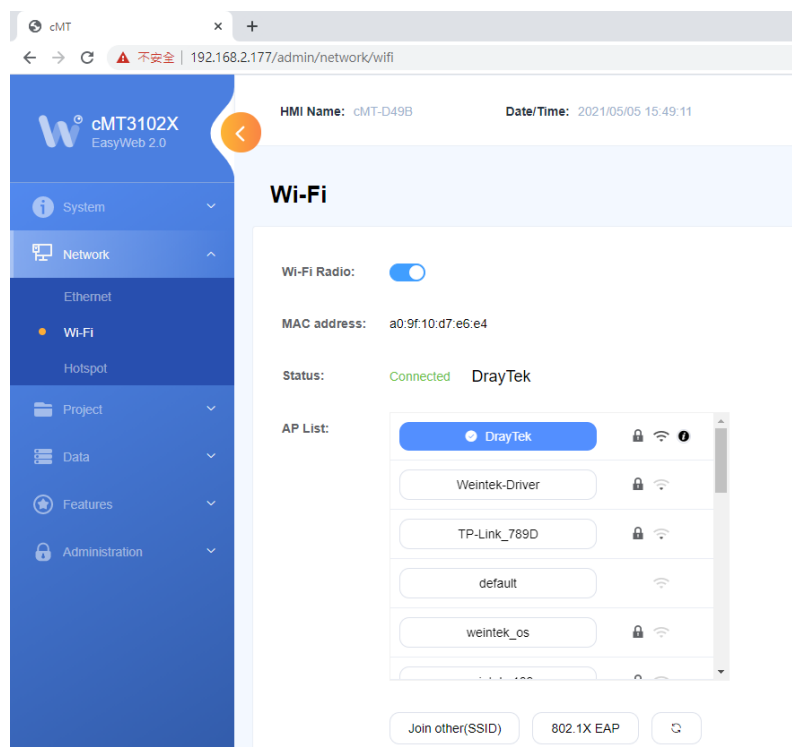
## Chapter 2 WiFi Settings

Connect M02 to HMI and then start up HMI. Log in system settings in one of the following two ways and configure WiFi parameters.

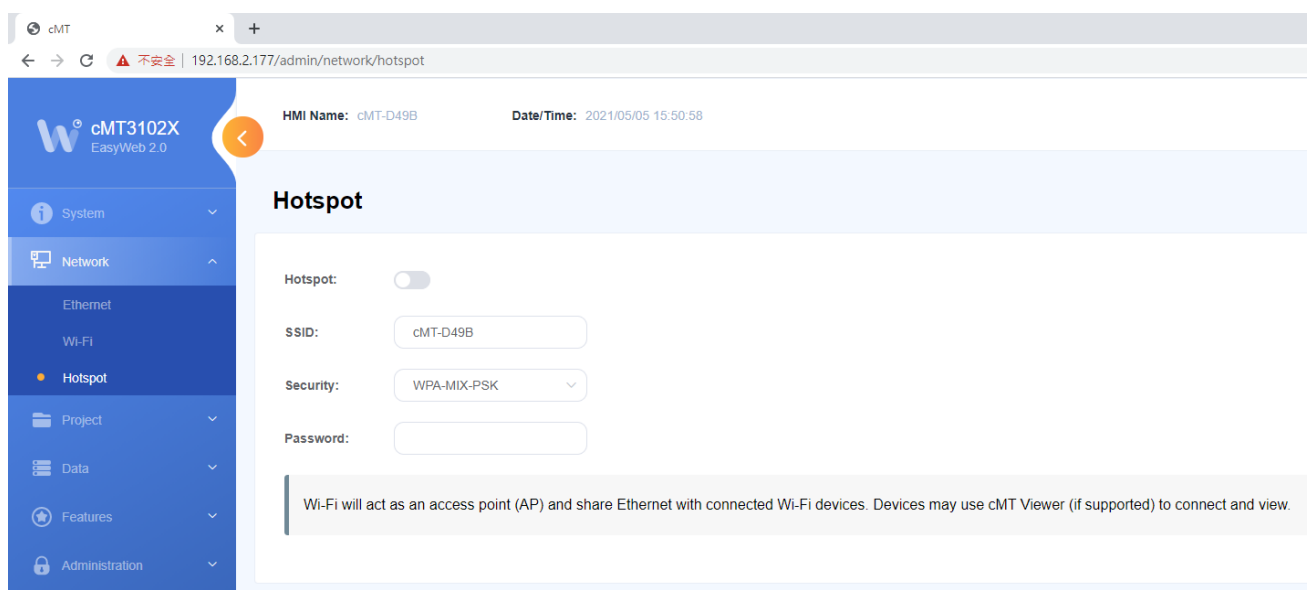
### 2.1 Set in internet browser

Connect HMI with PC using an Ethernet cable, open internet browser (IE, Chrome, or Firefox), and enter HMI's IP address (e.g.: 192.168.2.177) to configure HMI settings.


Network » WiFi: Select WiFi AP and define the encryption type.

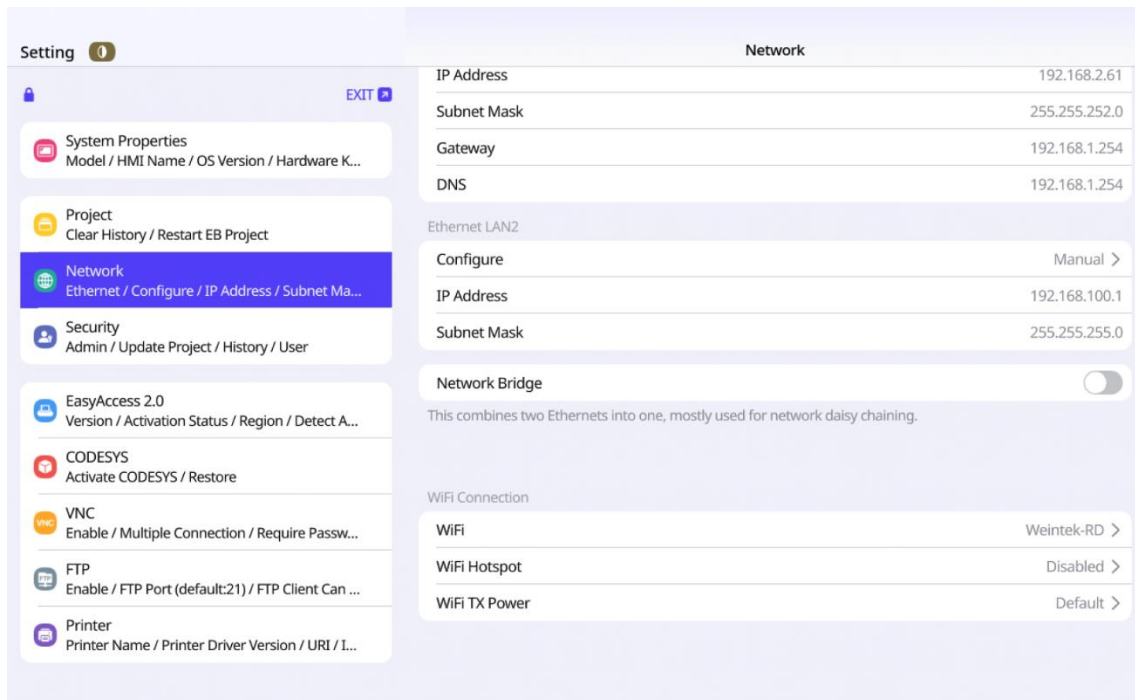


Network » Hotspot: Make the HMI a wireless hotspot to share internet connection if needed.

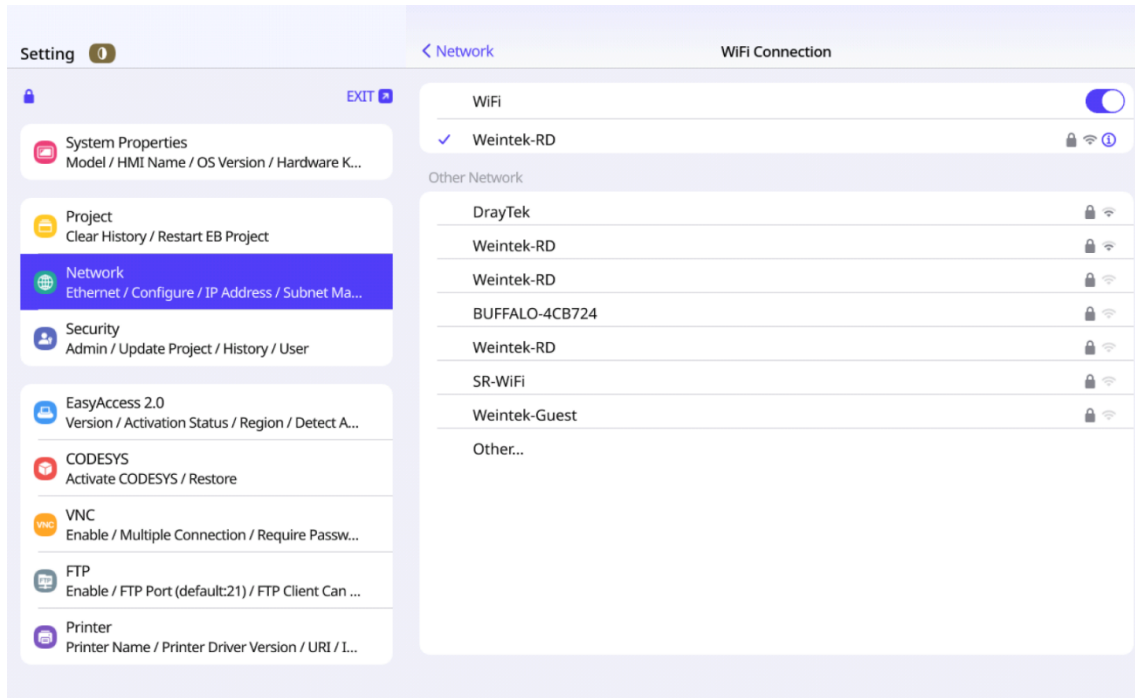


## 2.2 Set on HMI

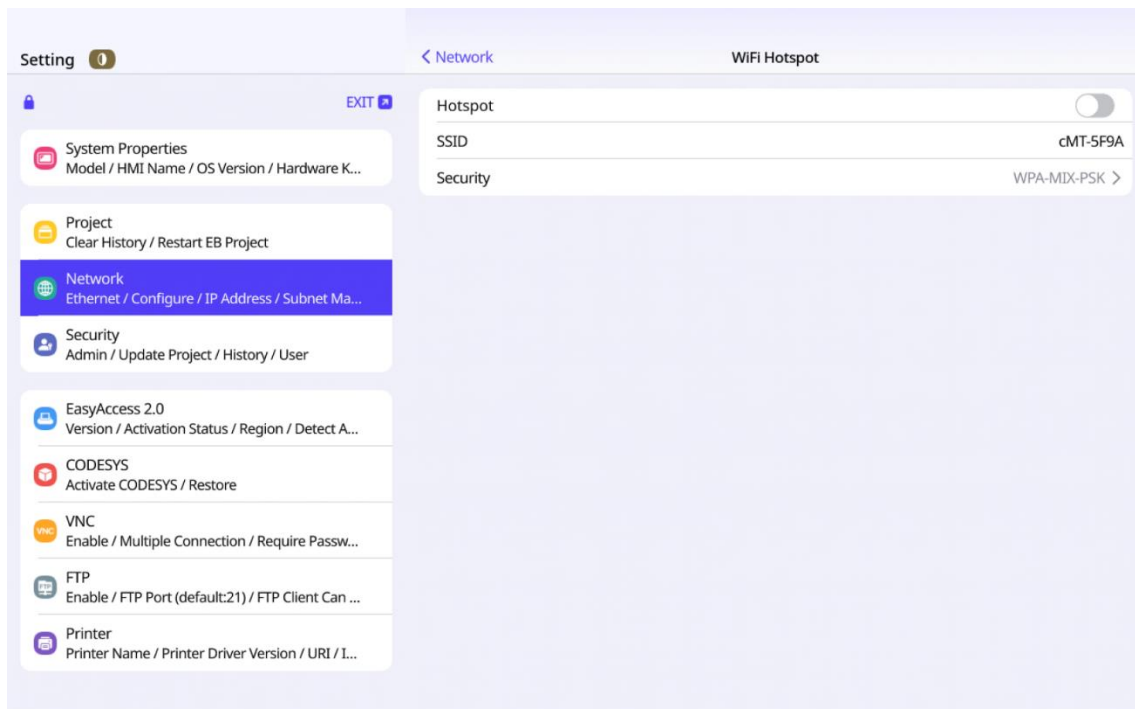
Tap the button  on HMI to access the relevant settings for the HMI. At the bottom of the Network page, WiFi Connection settings can be found.



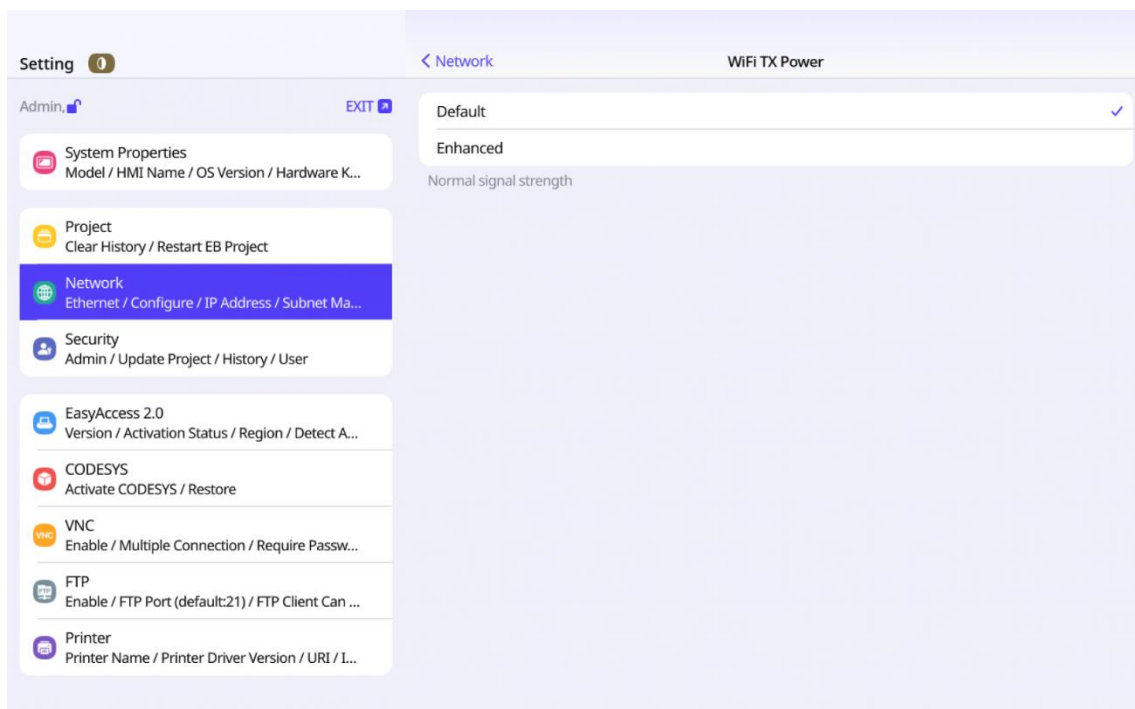
WiFi: Select WiFi AP and define the encryption type.



WiFi Hotspot: Make the HMI a wireless hotspot to share internet connection if needed.



WiFi TX Power: After successfully logging in with the correct password, the default power or enhanced power can be configured here.



### Note

- The IP address for WiFi and the IP address for LAN1/LAN2 can belong to the same domain or different domains.
- A WiFi hotspot's connection can be shared with up to 10 client devices at a time.

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