

Compact Industrial 5G NR Cellular Wireless Gateway

ICG-2210W-NR

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET Compact Industrial 5G NR Cellular Wireless Gateway, ICG-2210W-NR. The description of this model is as follows:

Model Name	Description
ICG-2210W-NR	Compact Industrial 5G NR Cellular Wireless Gateway with 2-Port 10/100/1000T.

“**Cellular Gateway**” is used as an alternative name in this Quick Installation Guide.

Open the box of the **Cellular Gateway** and carefully unpack it. The box should contain the following items:

Cellular Gateway x 1	QR Code Sheet	5G NR Antenna x 4
		
Wi-Fi Antenna x 1	DIN-rail Mounting Kit	6-pin Terminal Block x 1
		
DB9 to 3 pins (2, 3, 5)	DC Adapter	RJ45 Dust Cap x 2
		
RJ45 UTP Ethernet Cable x 1	Wall Mounting Kit	
		

If any item is found missing or damaged, please contact your local reseller for replacement.

2. Requirement

- **Workstations** running Windows 7/8/10/11, macOS 10.12 or later, Linux Kernel 2.6.18 or later, or other modern operating system are compatible with TCP/IP protocols.
- Workstations are installed with **Ethernet NIC** (Network Interface Card).
- Ethernet Port Connection
 - Network cables -- Use standard network (UTP) cables with RJ45 connectors.
 - The above PC is installed with Web browser.



Note

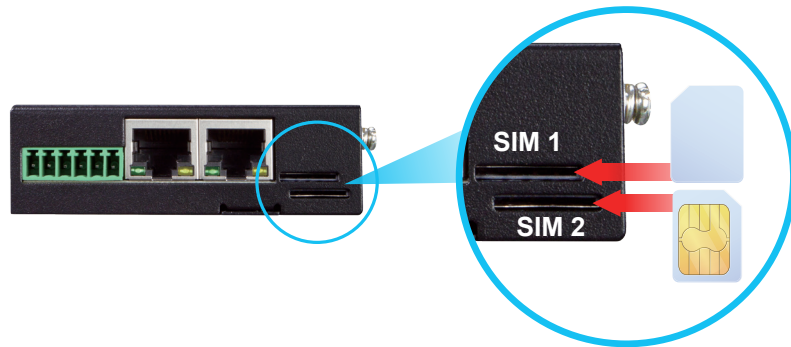
It is recommended to use Google Chrome, Microsoft Edge, or Mozilla Firefox to access the Cellular Gateway. If the Web interface of the Cellular Gateway is not accessible, please turn off the anti-virus software or firewall and then try it again.

3. Hardware Installation

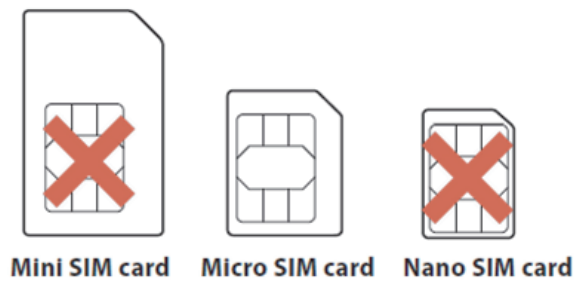
Refer to the illustration and follow the simple steps below to quickly install your **Cellular Gateway**.

3.1 SIM Card Installation

Insert the SIM card into the interface shown below.

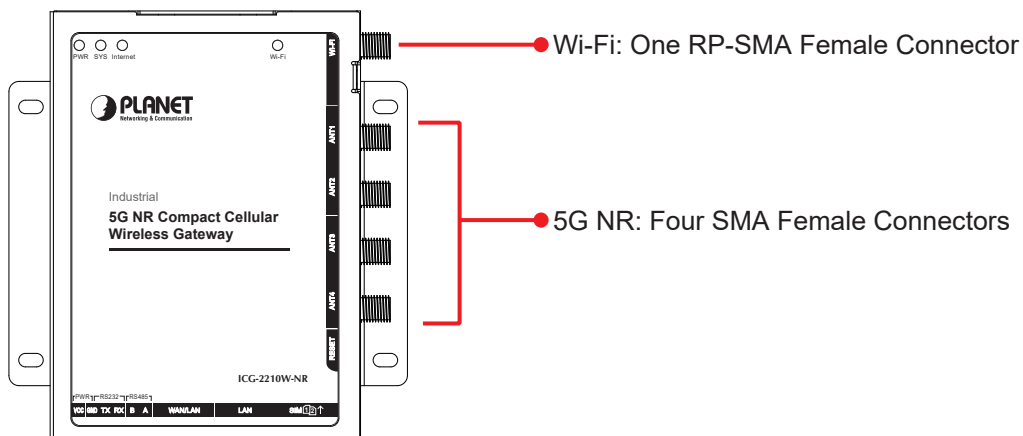


A micro SIM card with 5G NR and 4G LTE subscription



3.2 5G NR and Wireless Antenna Installation

Step 1: Fasten the 5G NR antenna extensions to the 5G NR connectors and the wireless antenna to the wireless connector.



3.3 Wiring the Power Inputs

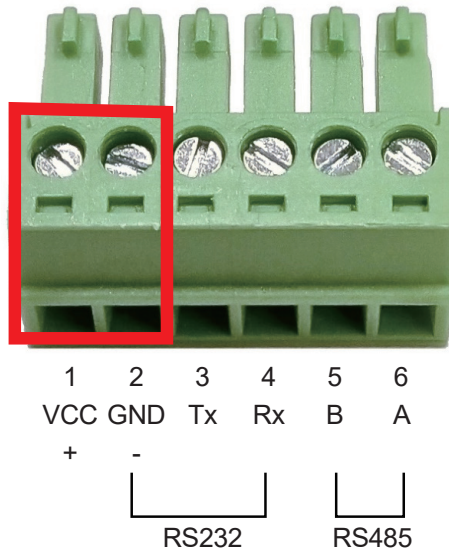
The 6-contact terminal block connector on the bottom panel of Cellular Gateway is used for DC power inputs. Please follow the steps below to insert the power wire.



Caution

When performing any of the procedures like inserting the wires or tightening the wire-clamp screws, make sure the power is unplugged to prevent from getting an electric shock.

1. Insert positive and negative DC power wires into contacts VCC and GND.
2. Tighten the screws for preventing the wires from loosening.

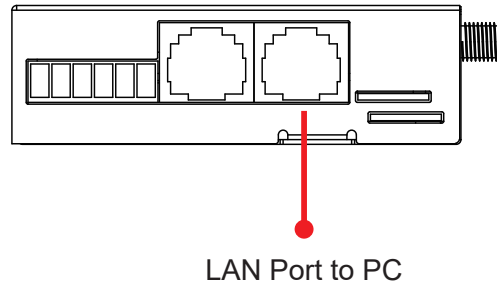


3.4 Grounding the Device

User MUST complete grounding wired with the device; otherwise, a sudden lightning could cause fatal damage to the device. EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.

4. Starting Web Management

The following shows how to start up the **Web Management** of the **Cellular Gateway**. Note the **Cellular Gateway** is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.



For example, the default IP address of the **Cellular Gateway** is **192.168.1.1**, then the manager PC should be set to **192.168.1.x** (where x is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

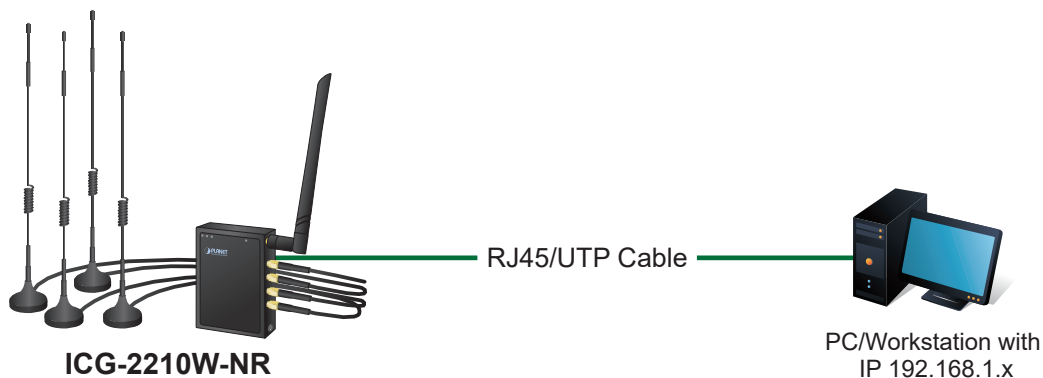


Figure 4-1: IP Management Diagram



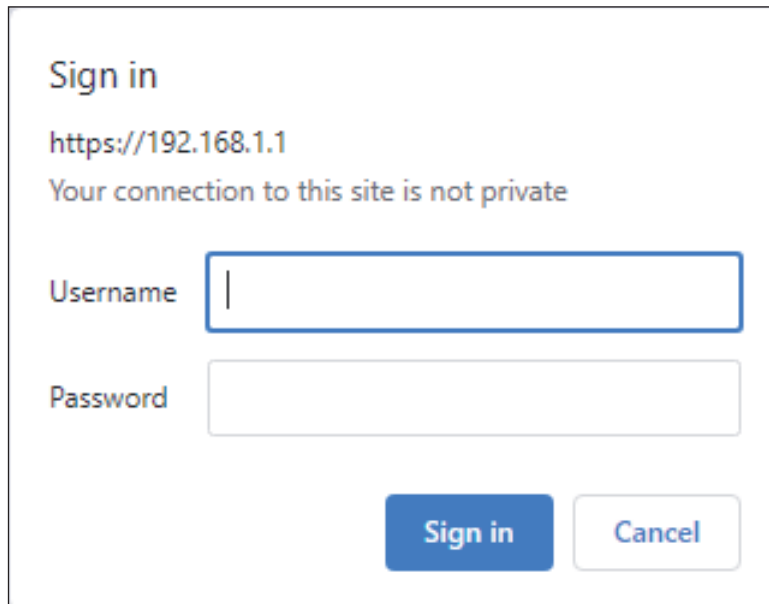
Note

The DHCP server of the Cellular Gateway is enabled. Therefore, the LAN PC will get IP from the Cellular Gateway.

Logging in to the Cellular Gateway

1. Use your preferred web browser (such as Chrome, Edge, Firefox, etc.) and enter IP address **<https://192.168.1.1>** (the factory default IP address or the one that you have just changed in console) to access the Web interface.
- 2a. When the following dialog box appears, please enter the default user name **"admin"** and password **"admin"** (or the password you have changed before) as shown in **Figure 4-2**.

Default IP Address: **192.168.1.1**
Default User Name: **admin**
Default Password: **admin**
Default SSID (2.4G): **PLANET_2.4G**
Default SSID (5G): **PLANET_5G**



Sign in

<https://192.168.1.1>

Your connection to this site is not private

Username

Password

Figure 4-2: Login Screen



Note

The following steps is based on the firmware version before **May of 2024**.

2b. When the following dialog box appears, please enter the default user name and password. Refer to **Figure 4-3** to determine your initial login password.

Default IP Address: **192.168.1.1**
Default Username: **admin**
Default Password: **cg + the last 6 characters of the MAC ID in lowercase**
Default SSID (2.4G): **PLANET_2.4G**
Default SSID (5G): **PLANET_5G**

Find the MAC ID on your device label. The default password is “cg” followed by the last six lowercase characters of the MAC ID.

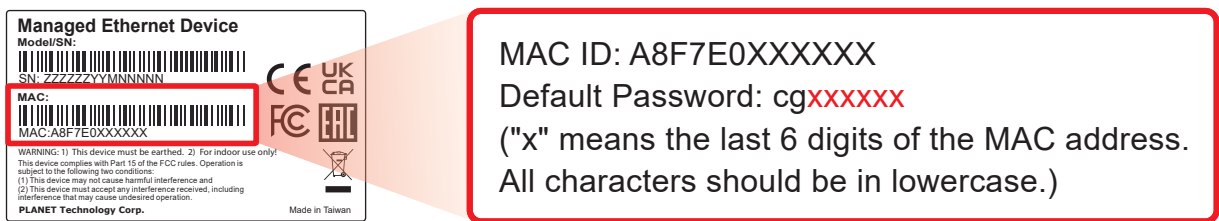




Figure 4-3: MAC ID Label

 The following steps is based on the firmware version of **May of 2024 or after.**
Note

 If you have already changed the password via web login, please use this new password to log in.
Note

3. After entering the password, the main screen appears as shown in Figure 4-4.

The screenshot displays the main configuration screen of the Planet Industrial 5G NR Compact Cellular Wireless Gateway. The top header includes the Planet logo, the device name 'Industrial 5G NR Compact Cellular Wireless Gateway with 2-Port 10/100/1000T', and the firmware version 'ICG-2210W-NR v1.0 (Dec 18 2023 17:48:35)'. The left sidebar contains a menu with options like Setup, Wireless, Services, VPN, Security, NAT, Access Restrictions, QoS Setting, Applications, Administration, and Status. The main content area is divided into several sections:

- System Information:** Router Name (PLANET Cellular Wireless), Gateway, Router Model (ICG-2210W-NR), LAN MAC (A8:F7:E0:3C:5E:BC), WAN MAC (A8:F7:E0:3C:5E:BD), Wireless MAC (A8:F7:E0:3C:5E:BE), WAN IP (0.0.0.0), BKUP WAN IP (0.0.0.0), LAN IP (192.168.1.1).
- Wireless:** Radio (Radio is On), Mode (AP), Network (Mixed), SSID (PLANET_2.4G), Channel (1 (2.412 GHz)), TX Power (20 dBm), Rate (96 Mb/s).
- Wireless Packet Info:** Received (RX) (0 OK, no error), Transmitted (TX) (0 OK, no error).
- Services:** DHCP Server (Enabled), radauth (Disabled).
- Memory:** Total Available (494.1 MB / 512.0 MB), Free (367.1 MB / 494.1 MB), Used (127.0 MB / 494.1 MB), Buffers (7.3 MB / 127.0 MB), Cached (21.3 MB / 127.0 MB), Active (14.8 MB / 127.0 MB), Inactive (17.5 MB / 127.0 MB).
- Clients:** A table with columns for MAC Address, Interface, Uptime, TX Rate, RX Rate, Rssi, Min Rssi, and Max Rssi. The current state is '- None -'.

Figure 4-4: Web-based Main Screen of Cellular Gateway

Now, you can use the Web management interface to continue the Cellular Gateway management or manage the Cellular Gateway by console interface. Please refer to the user’s manual for more.

5. Recovering Back to Default Configuration

■ IP address has been changed or admin password has been forgotten –

To reset the IP address to the default IP address “**192.168.1.1**” or reset the login password to default value, press the hardware **reset button** on the rear panel for about **15 seconds**. After the device is rebooted, you can log in the management Web interface within the same subnet of 192.168.1.xx.

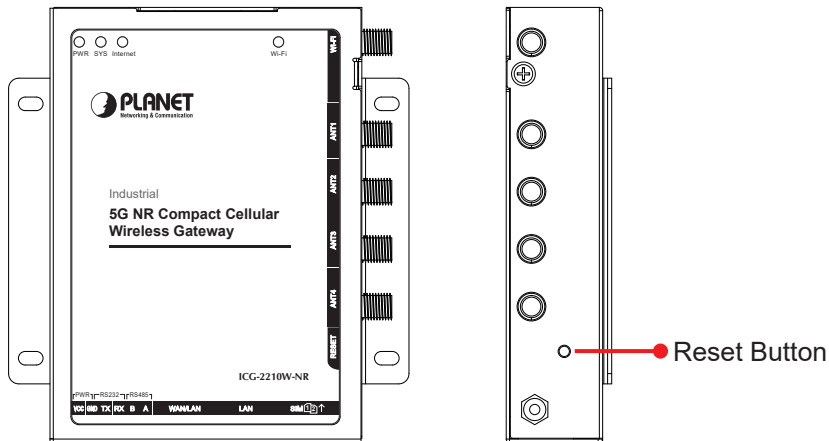


Figure 5-1: ICG-2210W-NR Reset Button

6. Discovery through PLANET NMS Controller (NMS-500/NMS-1000V)

The ICG-2210W-NR is the IP-based switched power manager, which can be centrally monitored by PLANET NMS Controller.

Follow the steps below to discover the managed ICG-2210W-NR through PLANET NMS controller (NMS-500/NMS-1000V). Please ensure each managed ICG-2210W-NR uses a different static IP in the same subnet before physically connecting to the managed network.



Please regularly check PLANET website for the latest compatibility list of the ICG-2210W-NR controller for each firmware version.

Step 1. Launch the Web browser (Google Chrome is recommended.) and enter the default IP address <https://192.168.1.100:8888> of the NMS controller. Then, enter the default username and password “admin” to log on to the system.

* The secure login with SSL (HTTPS) prefix is required.



Step 2. Go to the “**Domain**” page to discover and add the managed ICG-2210W-NR to the device list. Then, you can search and add them and go to the “**Device List**” and “**Topology View**” page to monitor the ICG-2210W-NR.

7. Customer Support

You can browse our online FAQ resource and User's Manual on PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET support team.

PLANET online FAQs:

<https://www.planet.com.tw/en/support/faq.php?method=keyword&keyword=ICG-2210W-NR>

Support team mail address:

support@planet.com.tw

ICG-2210W-NR User's Manual:

<https://www.planet.com.tw/en/support/downloads?&method=keyword&keyword=ICG-2210W-NR&view=3#list>



(Please select your model name from the drop-down menu of Product Models.)

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