



5G-8649AX

User Manual

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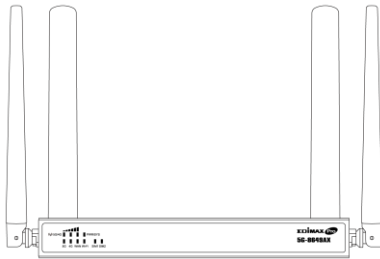
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I. *Product Information*

5G-8649AX: 5G NR AX1800 Wi-Fi 6 Router

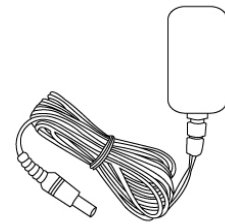
I-1. Package Contents



5G-8649AX

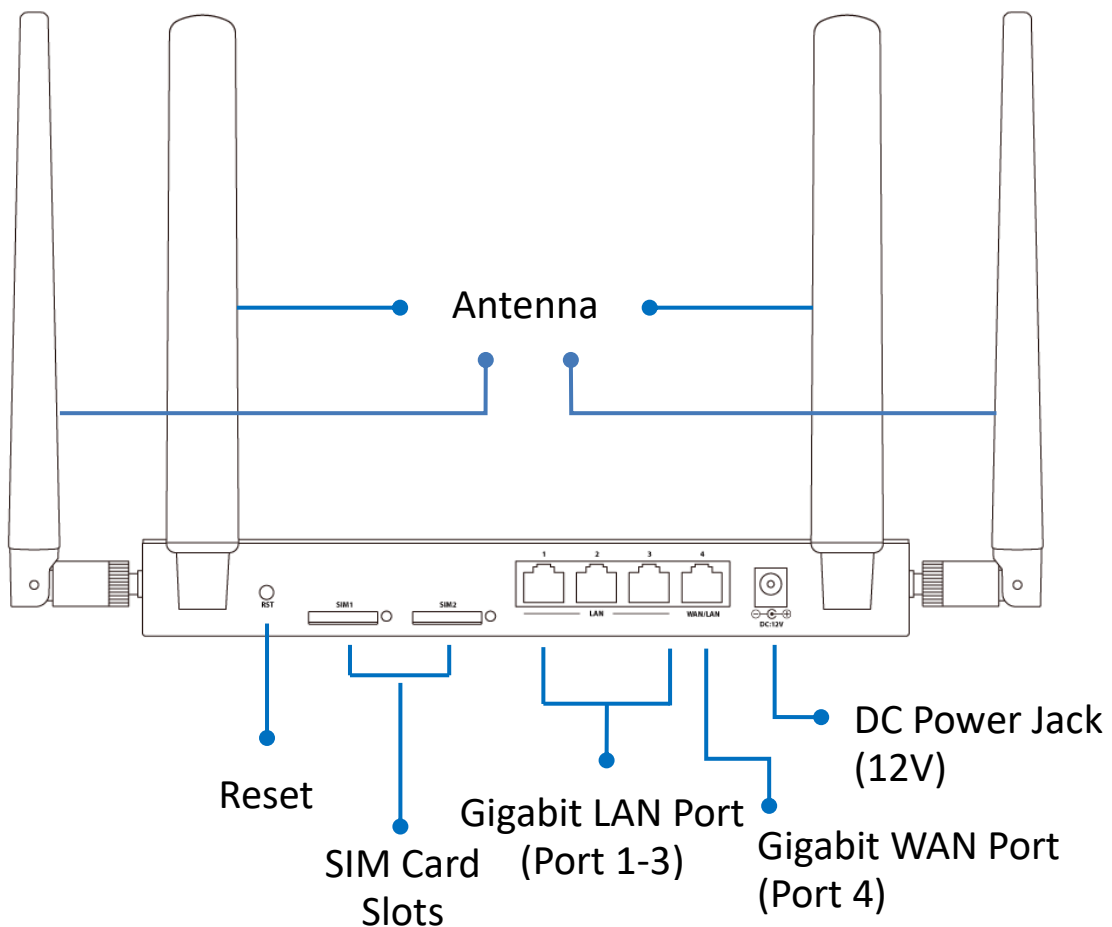


**Quick Installation
Guide**

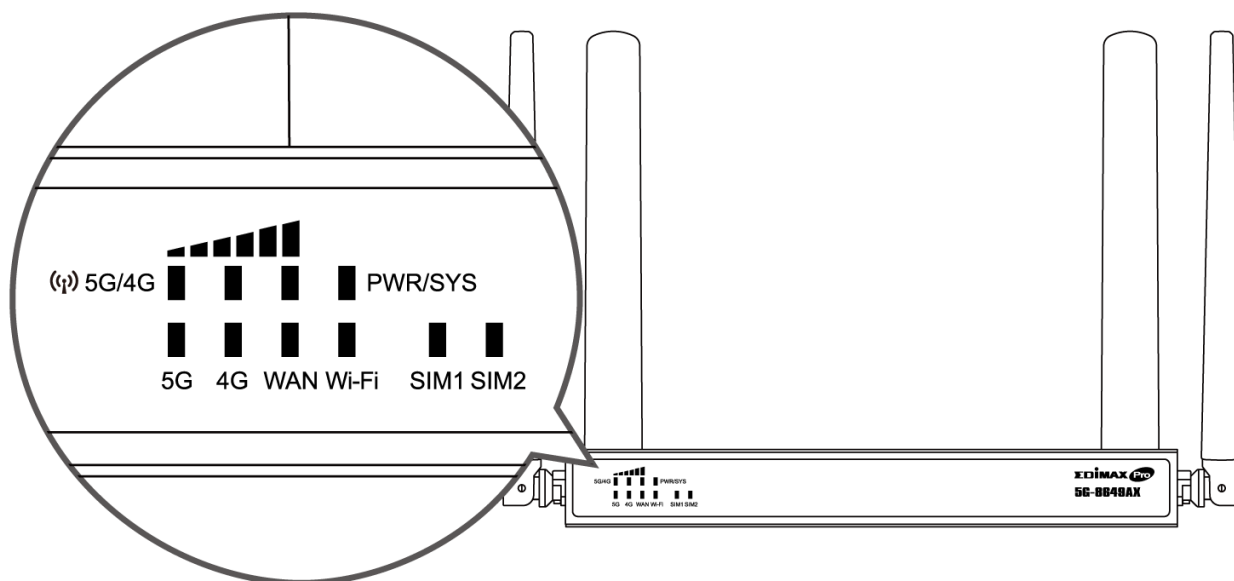


Power Adapter

I-2. Hardware Overview



I-3. LED Status



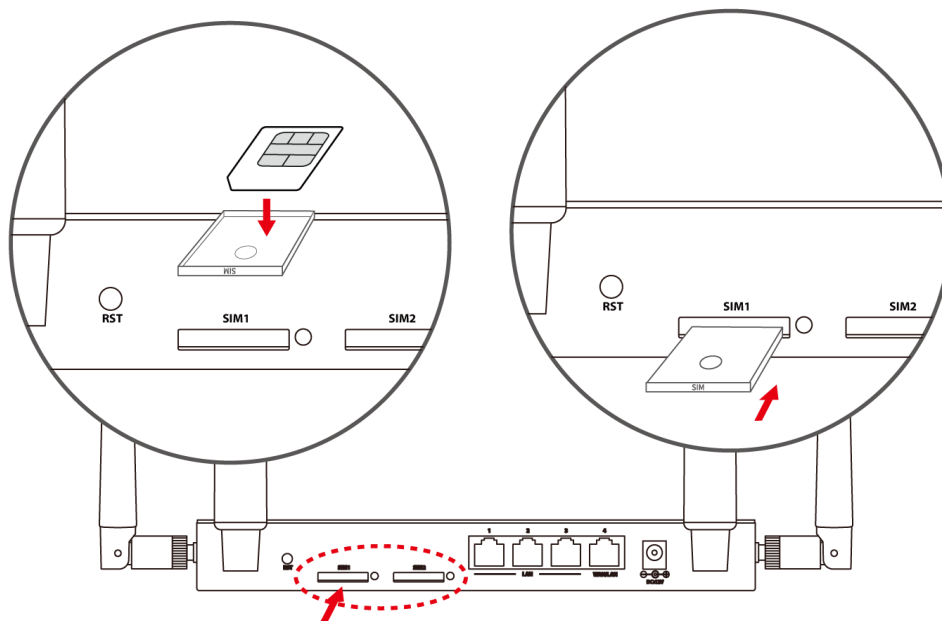
Function	Color	Status	Description
5G	Blue	On	Connected to 5G NR network
		Off	Not connected to 5G NR network
4G	Blue	On	Connected to 4G LTE network
		Off	Not connected to 4G LTE network
WAN	Blue	On	Connected to the internet
		Off	Not connected to the internet
Wi-Fi	Blue	On	Wi-Fi function enabled
		Off	Wi-Fi function disabled
PWR/SYS	Blue	On	System working fine
		Off	Power off or system failure
		Blinking	Booting up or firmware upgrading
SIM 1 SIM 2	Blue	On	SIM card is active
		Off	No SIM card inside
5G/4G (p) 5G/4G	Blue	Sequence On	1. Connecting to Cellular Network connection 2. No cellular Network connection
		On	Connected to internet via cellular • One LED: Poor connection • Two LEDs: Good connection • Three LEDs: Excellent connection

II. *Installation*

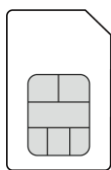
Read the following topics and perform the procedures in the correct order. Incorrect installation may cause damage to the product.

II-1. SIM Card Installation

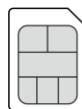
Gently insert the standard SIM card(s) into the SIM card slot(s).



Supported SIM card type for 5G-8649AX:



Standard SIM



Micro-SIM



Nano-SIM

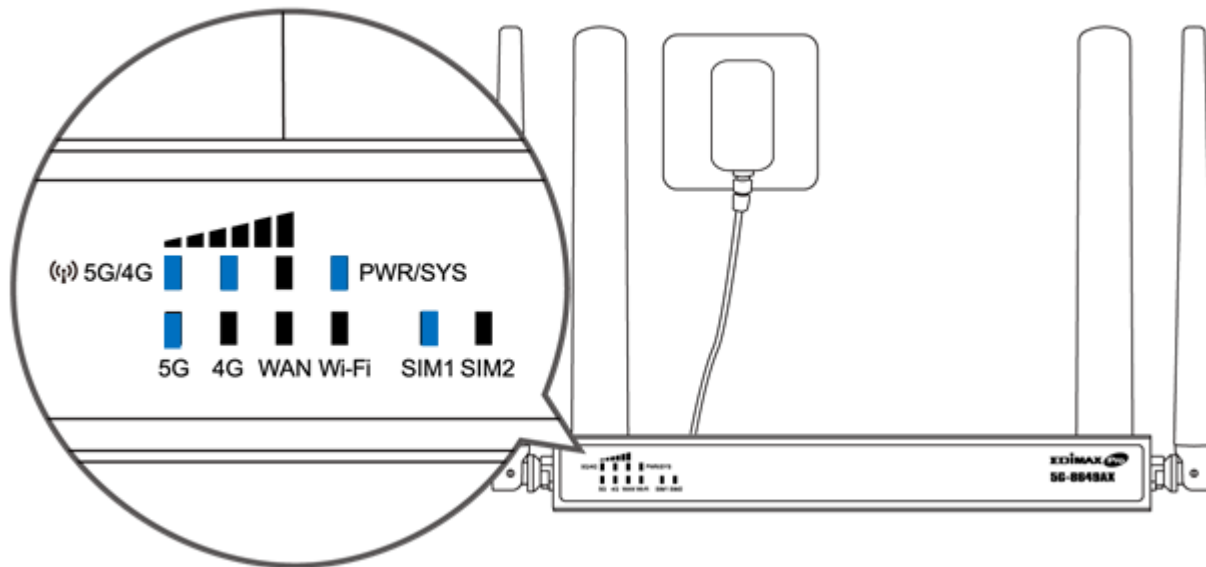


Note:

1. Hot Swapping is not supported.
2. The 5G or 4G Router needs to be restarted. Otherwise the Internet connection can't be established.
3. Please make sure PIN code of SIM is disabled before inserting the SIM to the 5G or 4G router.

II-2. Power on the Router

Connect the power adapter to the product's power port and then to the wall outlet.



Note:

1. Make sure the “PWR/SYS” LED is ON (Blue), “PWR/SYS” LED Blinking duration is 90 sec.
2. Make sure the “5G” or “4G” LED is ON (Blue).

III. Web-based Configuration

This section describes how to navigate the web-based configuration utility through the web browser. Be sure to disable any browser pop-up blocker.

Launching the Web Configuration Utility

The followings are the setup illustrations for smartphones.

III-1. Connect to Wi-Fi

Please refer to the Wi-Fi SSID and password on the label of the product.

1. Select your Wi-Fi Network (SSID)

Default SSID	Edimax-2.4Gxxxx Edimax-5Gxxxx
Default Password	12345678

Default SSID : Edimax-xxxx
(xxxx= Last 4 digits of the MAC Address)

For Example:

MAC Address: 08:BE: AC: 01: **DE:3C**

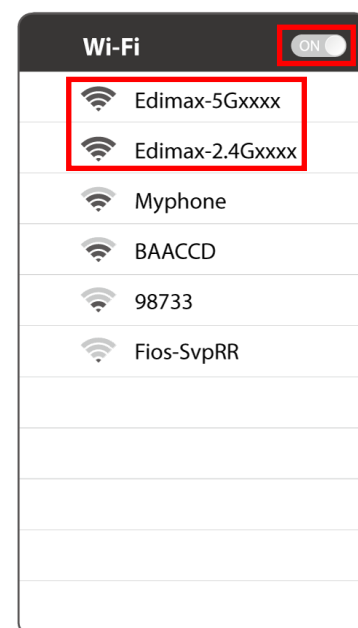
SSID= Edimax-5G**DE3C**

2. Click the selected SSID and enter the default Wi-Fi Password: 12345678.



Note:

Make sure the Wi-Fi connection is “ON”.

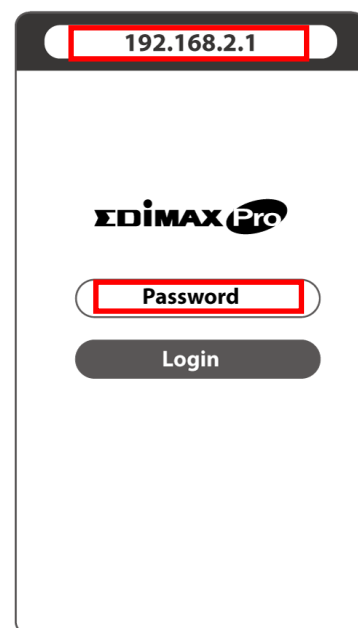


III-2. Login the Web-based Configuration

Please refer to the login IP address and password on the label of the product.

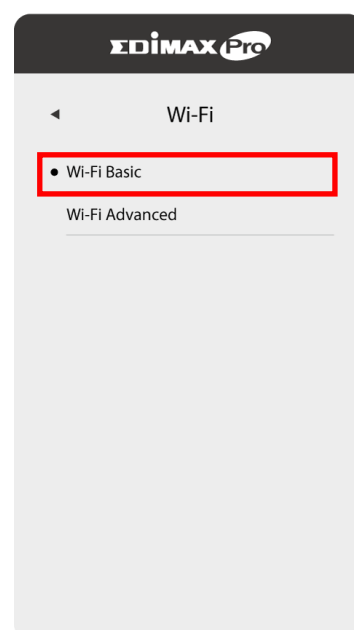
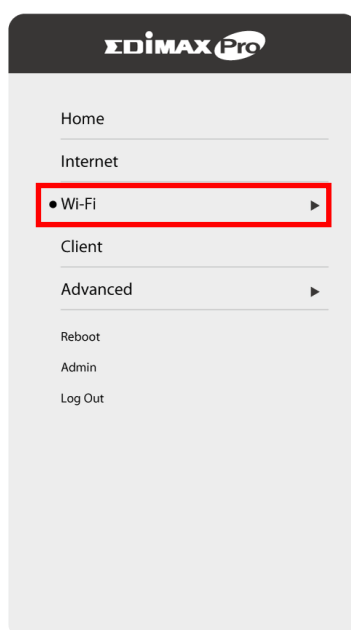
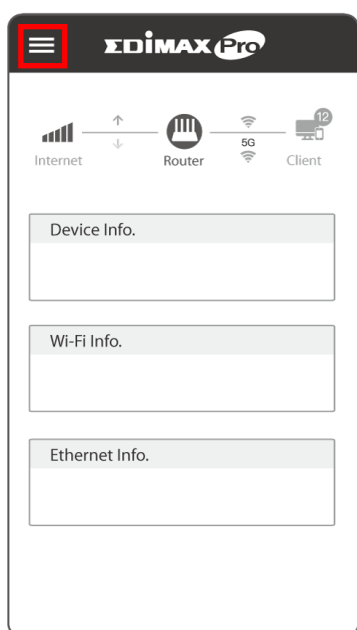
1. Enter the Default **IP address “192.168.2.1”** in the address field of the web browser.
2. Enter the Default **Password “1234”**.

Default IP address	192.168.2.1
Default Password	1234



III-3. Modify Wi-Fi Parameters

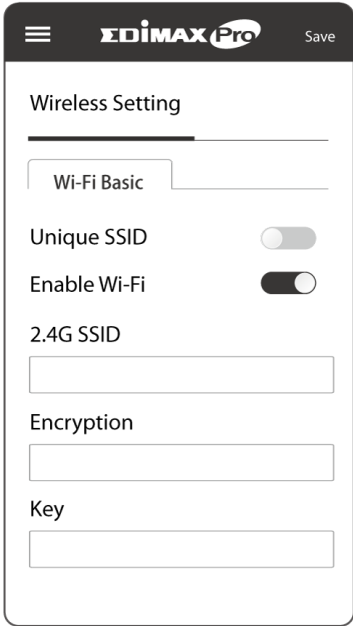
1. Select menu  → Wi-Fi → Wi-Fi Basic



2. Modify Wi-Fi parameters

Modify the Wi-Fi parameters of SSID, Encryption and Key (password).

Item	Description
SSID	• 2.4GHz SSID • 5GHz SSID
Encryption	• WPA/WPA2-Personal • WPA2/WAP3-Personnal • Open
Key	 Password MUST be modified.



3. Click “Save” button after modifying the Wi-Fi parameters.

Note:

You can Login the Web-based Configuration utility via a LAN port as well.

Plug the standard Cat5e or above Ethernet cable into the LAN port and connect to the PC/NB/Server

Login the Web-based Configuration by entering default IP address and default password.

Default IP address	192.168.2.1
Default Password	1234

IV. Web-based Configuration Utility

This section describes how to navigate the web-based switch configuration utility through web browser. **Be sure to disable any browser pop-up blocker.**

Browser Restrictions

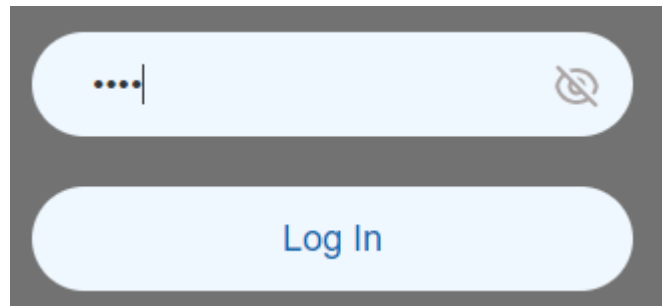
- If you are using older versions of Internet Explorer, you cannot directly use an IPv6 address to access the device. You can, however, use the DNS (Domain Name System) server to create a domain name that contains the IPv6 address, and then use that domain name in the address bar in place of the IPv6 address.
- If you have multiple IPv6 interfaces on your management station, use the IPv6 global address instead of the IPv6 link local address to access the device from your browser.

Launching the Configuration Utility

1. Connect your computer with the switch then open a web browser.
2. Enter the IP address of the switch you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter. Please make sure that your computer's IP address is in the same subnet as this switch. The default IP address is an IP address in the range of 192.168.2.X (X=2-254). You can modify the IP address of your computer if you need.

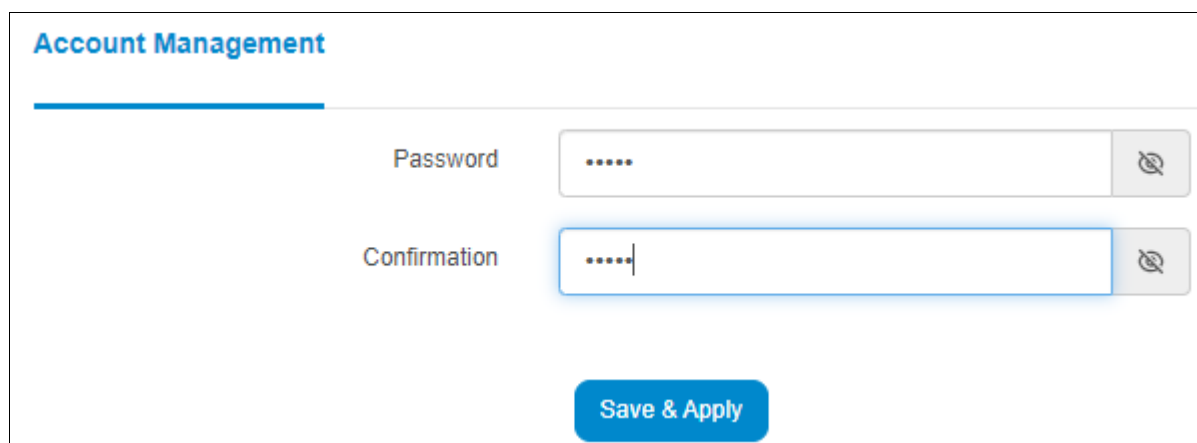
Default IP	192.168.2.1
Default Password	1234

3. The default password is “1234”.



A login form with a light blue background. It features a password input field with a light blue border and a light blue background, containing four dots and a vertical cursor. To the right of the field is a small icon of an eye with a diagonal line through it. Below the password field is a light blue button with the text "Log In" in a darker blue font.

4. The first time that you log in with the default username and password, you are required to set a new password. Password length needs to be between 5-64 characters.

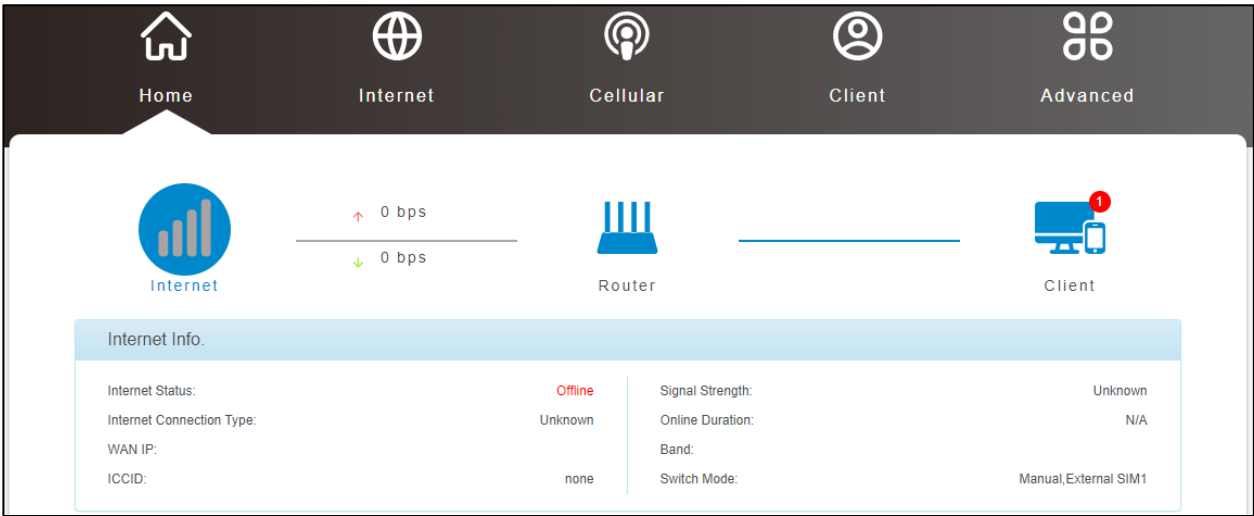


A form titled "Account Management" in blue text. Below the title is a horizontal line. The form contains two input fields: "Password" and "Confirmation". Both fields have a light blue border and a light blue background, containing four dots and a vertical cursor. To the right of each field is a small icon of an eye with a diagonal line through it. Below the input fields is a blue button with the text "Save & Apply" in white font.

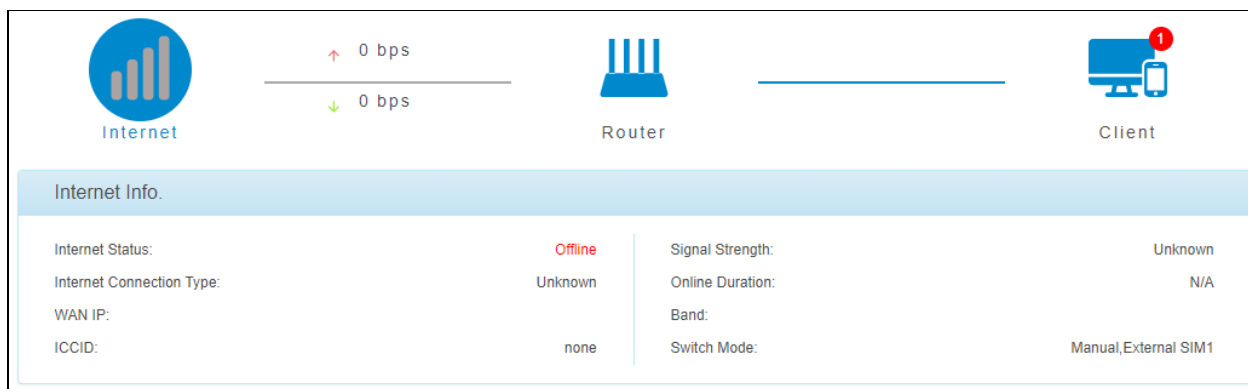
5. See the next section for details of the Web-based Configuration Utility.

V. Home Page

This section deals with the Internet, Router and Client settings.



V-1 Internet



Internet Status:	Offline
Internet Connection Type:	Unknown
WAN IP:	
ICCID:	none

Item	Description
Internet Status	Displays the Internet status.
Internet Connection Type	Displays the type of Internet connection.
WAN IP	Displays the WAN IP address.
ICCID	Displays the Integrated Circuit Card Identifier which is the unique 19- or 20-digit number that is used to identify a SIM card internationally. The ICCID is embedded in the SIM card and is typically printed on its surface.

Signal Strength:	Unknown
Online Duration:	N/A
Band:	
Switch Mode:	Manual, External SIM1

Item	Description
Signal Strength	Displays the signal strength in a given location.
Online Duration	Displays the length of time the device is connected.
Band	Displays the band type.
Switch Mode	Refers to the operational mode of the device.

V-2 Router



Internet

↑ 0 bps

↓ 0 bps

Router



Client

Device Info

Device Model:

C5800-581US

Firmware Version:

1.9.2.n7d162.c5

LAN IP:

192.168.2.1
fd44:22a0:4179::1

Device Code:

KpjKcb7a

MAC Address:

FC:83:C6:0F:24:A8

Runtime:

1m 9s

Ethernet Info.

LAN1



LAN

Unconnected

LAN2



LAN

100Mbps

LAN3



LAN

Unconnected

WAN/LAN



LAN

Unconnected

Device Model:	C5800-581US
Firmware Version:	1.9.2.n7d162.c5
LAN IP:	192.168.2.1 fd44:22a0:4179::1

Item	Description
Device Model	Displays the device model type.
Firmware Version	Displays the device’s firmware version.
LAN IP	Displays the device’s LAN IP address.

Device Code:	KpjKcb7a
MAC Address:	FC:83:C6:0F:24:A8
Runtime:	1m 9s

Item	Description
Device Code	Displays the device’s code to be able to identify it on a network.
MAC Address	A unique identifier which is used for communication within the physical network segment.
Runtime	Displays the amount of time that the device has been running for.

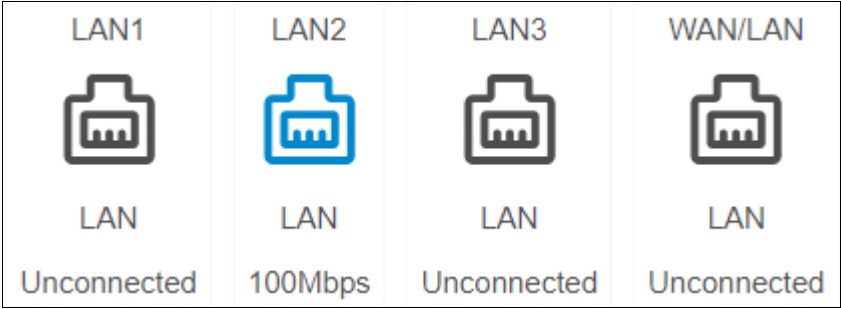
2.4G Status:	Enable
2.4G SSID:	@Edimax-E77C-2.4G
2.4G Channel:	Automatic(4)
Transmit Power:	Strong
Password:	12345678
Connected Client:	0

Item	Description
2.4G Status	Displays the 2.4G connection status.
2.4G SSID	Displays the (Service Set Identifier) SSID that the clients can connect to.
2.4G Channel	Displays the channel number.
Transmit Power	Displays the strength of the transmit power.
Password	Displays the WiFi password.
Connected Client	Displays the number of connected clients.

5G Status:	Enable
5G SSID:	@Edimax-E77C-5G
5G Channel:	Automatic(40)
Transmit Power:	Strong
Password:	12345678
Connected Client:	0

Item	Description
5G Status	Displays the 5G connection status.
5G SSID	Displays the (Service Set Identifier) SSID that the clients can connect to.
5G Channel	Displays the channel number.
Transmit Power	Displays the strength of the transmit power.

Password	Displays the WiFi password.
Connected Client	Displays the number of connected clients.



Shows which LAN ports are connected and the signal speed.

V-3 Client

This page displays information about the connected client(s).



Internet

↑ 0 bps

↓ 0 bps



Router



Client

Clients Info.			
Connect Type	Connected Client	Bandwidth	User Flow
 Wired	TO0568 IP:192.168.2.133 IPv6:fd44:22a0:4179:6cb6:2257:22da:bf5c MAC:00:0E:C6:F0:42:25		

Here we have a client with a wired connection.

Manage Clients

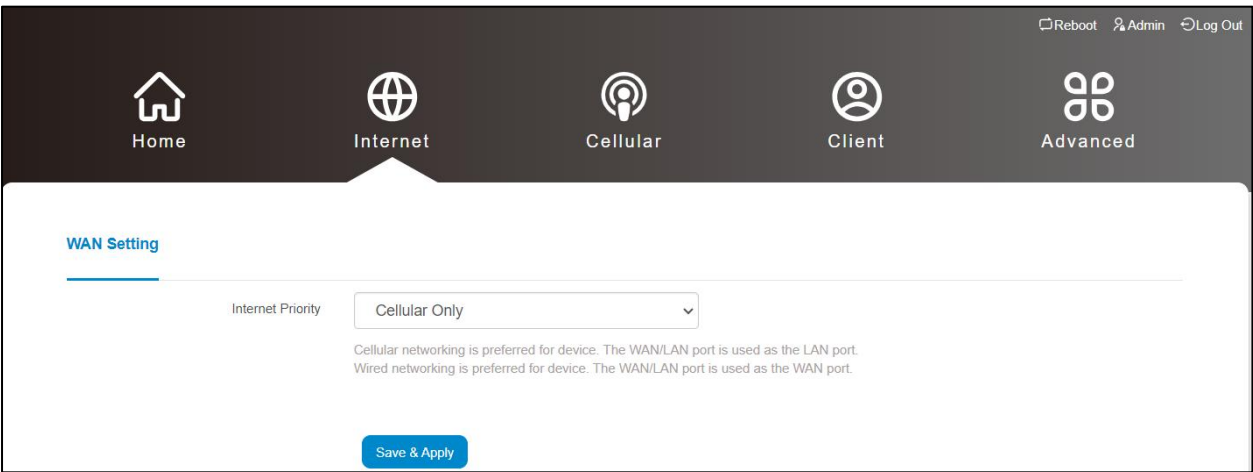
Online Clients: 1

Connected Client	Bandwidth	User Flow
 Wired	 IP:192.168.2.3 IPv6:fd44:22a0:4179:6cb6:2257:22da:bf5c MAC:00:0E:C6:F0:42:25	

Here we have both a wired and a wireless client connection.

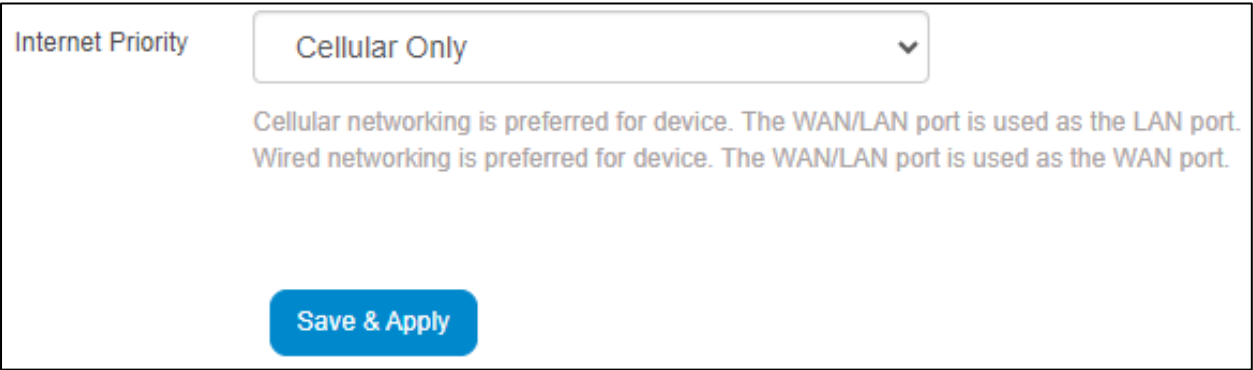
VI. Internet Page

This section deals with the WAN setting for the device.



VI-1 Internet Priority - Cellular Only

Cellular networking is preferred for device. The WAN/LAN port is used as the LAN port.



Click the **Save & Apply** button to save and implement your changes.

VI-2 Internet Priority - Wired Only

Wired networking is preferred for device. The WAN/LAN port is used as the WAN port.

Internet Priority

Wired Only

Cellular networking is preferred for device. The WAN/LAN port is used as the LAN port.
Wired networking is preferred for device. The WAN/LAN port is used as the WAN port.

Wired Type

DHCP Client

MTU Size

1500

MAC Clone

00:11:22:33:44:55

Use Default DNS

☒

Save & Apply

Click the **Save & Apply** button to save and implement your changes.

Item	Description
Wired Type	Select one of DHCP Client/PPPoE/Static IP from the drop-down menu.
MTU Size	Input the MTU size (default is 1500).
MAC Clone	Displays the MAC clone.
Use Default DNS	Click the toggle switch to deselect and then input the DNS server.

VI-3 Internet Priority – Wired->Cellular

Internet Priority

Wired->Cellular

Cellular networking is preferred for device. The WAN/LAN port is used as the LAN port.
Wired networking is preferred for device. The WAN/LAN port is used as the WAN port.

Wired Type

DHCP Client

MTU Size

1500

MAC Clone

00:11:22:33:44:55

Use Default DNS

☒

Save & Apply

In this case, the router is configured to prioritize a **Wired** connection first. If the wired connection is unavailable or fails, it will switch to the **Cellular** connection as a backup.

Click the **Save & Apply** button to save and implement your changes.

Item	Description
Wired Type	Select one of DHCP Client/PPPoE/Static IP from the drop- down menu.
MTU Size	Input the MTU size (default is 1500).
MAC Clone	Displays the MAC clone.
Use Default DNS	Click the toggle switch to deselect and then input the DNS server.

VII. Cellular

This section deals with cellular settings.

RebootAdminLog Out

Home

Internet

Cellular

Client

Advanced

Cellular Setting

Switch Mode

Manual

SIM Selection

External SIM1

NOTE: The SIM card will automatically switch to the next one if there is no data traffic or the signal strength reaches the switching threshold

Automatic Dial

Advanced Settings

Save & Apply

VII-1 Switch Mode - Auto

This page allows you to set the cellular settings.

Cellular Setting

Switch Mode

Auto

Latency Threshold
(seconds)

12

*Note: The default is 12, usually between 2 and 20. The larger the value, the worse the network quality. For more network quality parameters, please go to "More" -> "Networking Detection" to set.

SIM Selection

External SIM1

NOTE: The SIM card will automatically switch to the next one if there is no data traffic or the signal strength reaches the switching threshold

Automatic Dial

☒

Advanced Settings

☐

Save & Apply

Click the **Save & Apply** button to save and implement your changes.

Item	Description
Latency Threshold (Seconds)	Input the latency threshold in seconds. Default is 12, usually between 2 and 20. The larger the value, the worse the network quality.
SIM Selection	Select SIM1 or SIM2 from the drop-down menu. Note: The SIM card will automatically switch to the next one if there is no data traffic or the signal strength reaches the switching threshold.

Automatic Dial	Refers to the device's ability to automatically establish a connection to the cellular network (or dial the number for cellular data) without manual intervention when needed. When enabled, the system will automatically initiate the connection as soon as it detects the need, such as when data needs to be transmitted or a signal is available. If it is disabled, you might have to manually initiate the connection each time you want to use cellular data or connect to the network. Click on the toggle switch to enable or disable.
Advanced Settings	Click on the toggle switch to display the advanced settings.

VII-2 Switch Mode – Auto (Signal Strength)

Cellular Setting

Switch Mode

Auto (signal strength) ▼

Latency Threshold (seconds)

12

*Note: The default is 12, usually between 2 and 20. The larger the value, the worse the network quality. For more network quality parameters, please go to "More" -> "Networking Detection" to set.

Signal Threshold (dBm)

NOTE: The default is empty, the signal switching threshold is generally between -140 and -100, the smaller the threshold value, the worse the signal

SIM Selection

External SIM1 ▼

NOTE: The SIM card will automatically switch to the next one if there is no data traffic or the signal strength reaches the switching threshold

Automatic Dial

☒

Advanced Settings

☐

Save & Apply

Item	Description
Latency Threshold (Seconds)	Input the latency threshold in seconds. Default is 12, usually between 2 and 20. The larger the value, the worse the network quality.
Signal Threshold (dBm)	Default is empty; the signal switching threshold is generally between -140 and -100, the smaller the threshold value, the worse the signal.
SIM Selection	Select SIM1 or SIM2 from the drop-down menu. Note: The SIM card will automatically switch to the next one if there is no data traffic or the signal strength reaches the switching threshold.
Automatic Dial	Refers to the device's ability to automatically Establish a connection to the cellular network (or dial the number for cellular data) without manual intervention when needed. When enabled, the system will automatically initiate the connection as soon as it detects the need, such as when data needs to be transmitted or a signal is available. If it is disabled, you might have to manually initiate the connection each time you want to use cellular data or connect to the network. Click on the toggle switch to enable or disable.
Advanced Settings	Click on the toggle switch to display the advanced settings.

VII-3 Switch Mode – Manual

Cellular Setting

Switch Mode

Manual

SIM Selection

External SIM1

NOTE: The SIM card will automatically switch to the next one if there is no data traffic or the signal strength reaches the switching threshold

Automatic Dial

Advanced Settings

Save & Apply

Item	Description
SIM Selection	Select SIM1 or SIM2 from the drop-down menu. Note: The SIM card will automatically switch to the next one if there is no data traffic or the signal strength reaches the switching threshold.
Automatic Dial	Refers to the device's ability to automatically Establish a connection to the cellular network (or dial the number for cellular data) without manual intervention when needed. When enabled, the system will automatically initiate the connection as soon as it detects the need, such as when data needs to be transmitted or a signal is available. If it is disabled, you might have to manually initiate the connection each time you want to use cellular data or connect to the network. Click on the toggle switch to enable or disable.
Advanced Settings	Click on the toggle switch to display the advanced settings (See Below).

Advanced Settings

Click on the advanced settings toggle switch to display the advanced options.

Advanced Settings

Cellular Mode

Auto

▼

*Please select AUTO mode first. If you select other modes, it will fail to register in some scenes.

5G Earfcn Lock

*Note: Manually selecting a locked cell may cause the device to be out of service. If you manually select a locked cell, registration may not be possible in certain scenarios

4G Earfcn Lock

*Note: Manually selecting a locked cell may cause the device to be out of service. If you manually select a locked cell, registration may not be possible in certain scenarios

Band Mode

Auto

▼

*Manual selection of band may result in no service for the device. If you are not clear about the cellular band, it is recommended to select Auto mode.

Data Roaming

Maximize Compatibility

*Cellular performance may be reduced when turned on.

SMS Force IMS

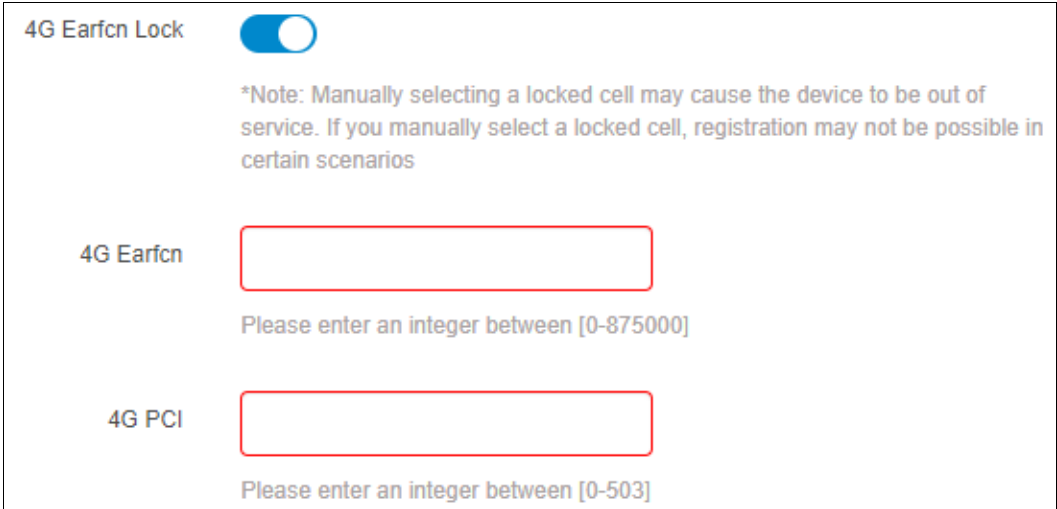
If the SIM card has not activated VoNR service, it is necessary to enable mandatory IMS. Switching the IMS status may cause the module to restart or fail to connect to the 5G network. Please use with caution.

Custom APN

NOTE: APN is the name of the cellular data setting information read by the device. In most cases, the device has automatically completed the APN settings. If the automatic APN cannot access the Internet, you can manually set the APN.

Save & Apply

Item	Description	
5G EARFCN Lock	5G EARFCN Lock (Evolved Absolute Radio Frequency Channel Number Lock) is a feature used in mobile networks, particularly in LTE (Long-Term Evolution) networks. This feature allows a mobile device (like a smartphone or a 5G modem) to lock onto a specific frequency or set of frequencies, defined by the EARFCN. Click on the Custom 5G earfcn lock toggle switch to display the following. 5G Earfcn Lock ☒ *Note: Manually selecting a locked cell may cause the device to be out of service. If you manually select a locked cell, registration may not be possible in certain scenarios 5G Earfcn Please enter an integer between [0-875000] 5G PCI Please enter an integer between [0-1007] 5G BAND 1	
	5G Earfcn	Enter an integer between (0-875000).
	5G PCI	PCI stands for Physical Cell Identifier. This is an identifier for a specific 5G cell tower. By entering a PCI value (between 0 and 1007), you can lock the device to a specific cell, helping control which tower the device connects to.
	5G Band	This dropdown lets you choose the 5G frequency band to which you want the device to lock. Different 5G bands (like 1, 3, 78, etc.) correspond to different frequency ranges, and each carrier might operate on specific bands.

4G EARFCN Lock	4G EARFCN Lock (Evolved Absolute Radio Frequency Channel Number Lock) is a feature used in mobile networks, particularly in LTE (Long-Term Evolution) networks. This feature allows a mobile device (like a smartphone or a 4G modem) to lock onto a specific frequency or set of frequencies, defined by the EARFCN. Click on the Custom 4G earfcn lock toggle switch to display the following. 				
	<table> <tr> <td>4G Earfcn</td><td>Enter an integer between (0-875000).</td></tr> <tr> <td>4G PCI</td><td>Enter an integer between (0-503).</td></tr> </table>	4G Earfcn	Enter an integer between (0-875000).	4G PCI	Enter an integer between (0-503).
4G Earfcn	Enter an integer between (0-875000).				
4G PCI	Enter an integer between (0-503).				
Band Mode	This option allows you to manually select or automatically determine the frequency band your device should operate on when connecting to cellular networks. Selecting "Auto" ensures that the device will automatically choose the best available band for the network. Manually selecting a specific band could lead to no service or connectivity issues if the chosen band is not supported or optimal for your location.				
Data Roaming	Refers to the ability to use your mobile device to access the internet, send and receive emails, and use apps while you're outside of your home network's coverage area. This usually happens when you're traveling internationally or in areas where your network provider does not have coverage but has agreements with other carriers. Note: Charges can be very high.				

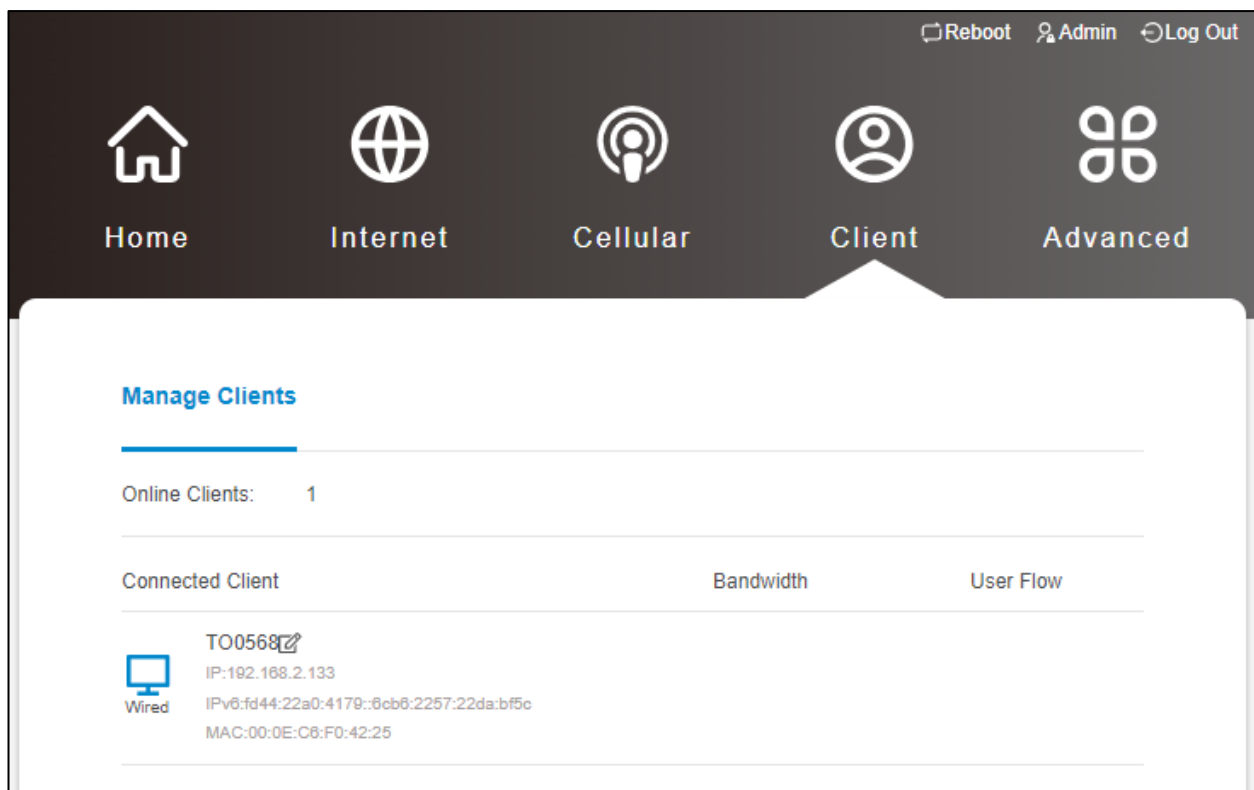
Maximize Compatibility	This setting, when enabled, might reduce cellular performance to improve compatibility with certain networks or devices. It's typically used in cases where a device struggles to maintain a stable connection with the network, ensuring broader but possibly slower connectivity.
SMS Force IMS	IMS (IP Multimedia Subsystem) is a technology that handles voice, video, and messaging services over LTE and 5G networks. When "SMS Force IMS" is enabled, it forces SMS services to use IMS, which is essential for devices that haven't yet activated VoNR (Voice over New Radio, used for voice over 5G). If VoNR isn't active, forcing IMS ensures the module can send SMS via the 5G network. However, switching IMS status could cause a module to restart or have trouble connecting, so caution is advised when toggling this setting.
Custom APN	Custom APN (Access Point Name) settings are used to configure how your device connects to the internet and other network services through a mobile carrier. The APN settings define the network path for your device to access the internet and use services like MMS (Multimedia Messaging Service). Click on the Custom APN toggle switch to display the following. Custom APN NOTE: APN is the name of the cellular data setting information read by the device. In most cases, the device has automatically completed the APN settings. If the automatic APN cannot access the Internet, you can manually set the APN. APN Name Username Password APN Authentication Type None PDP Type IPV4V6 Save & Apply

	APN Name	The APN (Access Point Name) is a gateway between a cellular network and another network, typically the internet. It specifies the network path for all data communications, and this field is where you input the APN provided by your mobile network carrier.
	Username	Some mobile networks require a username to authenticate the device for using the APN. This field is where you input the username provided by your carrier.
	Password	Similar to the username, this field is for entering the password required by some mobile networks to authenticate the device for APN usage.
	APN Authentication Type	This dropdown allows you to select the authentication method used by the APN. The options include: • None: No authentication is required. • PAP (Password Authentication Protocol): A simple password-based authentication protocol. • CHAP (Challenge Handshake Authentication Protocol): A more secure authentication method that uses a challenge-response mechanism. • PAP or CHAP: Selects between PAP (Password Authentication Protocol) and CHAP (Challenge Handshake Authentication Protocol), allowing either method to be used for authentication.

	PDP Type	Packet Data Protocol (PDP) type specifies the type of IP address (IPv4, IPv6, or both) that will be assigned to the device for data communication. The options include: ○ IPv4: Only an IPv4 address will be assigned. ○ IPv6: Only an IPv6 address will be assigned. ○ IPv4v6: Both an IPv4 and an IPv6 address will be assigned.
NOTE: APN is the name of the cellular data setting information read by the device. In most cases, the device has automatically completed the APN settings. If the automatic APN cannot access the Internet, you can manually set the APN.		

VIII. Client

This section helps in monitoring and managing the devices connected to your network, providing information about their IP addresses, connection type, and possibly their network usage.



VIII-1 Manage Clients

Manage Clients		
Online Clients: 1		
Connected Client	Bandwidth	User Flow
Wired TO0568  IP:192.168.2.133 IPv6:fd44:22a0:4179::6cb6:2257:22da:bf5c MAC:00:0E:C8:F0:42:25		

This image shows a "Manage Clients" section of a network device's user interface.

Online Clients: This indicates the number of devices currently connected to the network. In this case, there is **1** online client.

Connected Client (Wired):

- **Wired Icon:** The icon shows that the connected client is using a wired connection (e.g., Ethernet).
- **IP Address:** Displays the IPv4 address assigned to the client, which in this case is **192.168.2.3**.
- **IPv6 Address:** Displays the IPv6 address assigned to the client, which is **fdb3:b932:d112::855:8dd8:72bc**
- **MAC Address:** The MAC address of the connected device, which is **00:0E:C8:F0:42:25**. This is a unique identifier assigned to the network interface of the device.

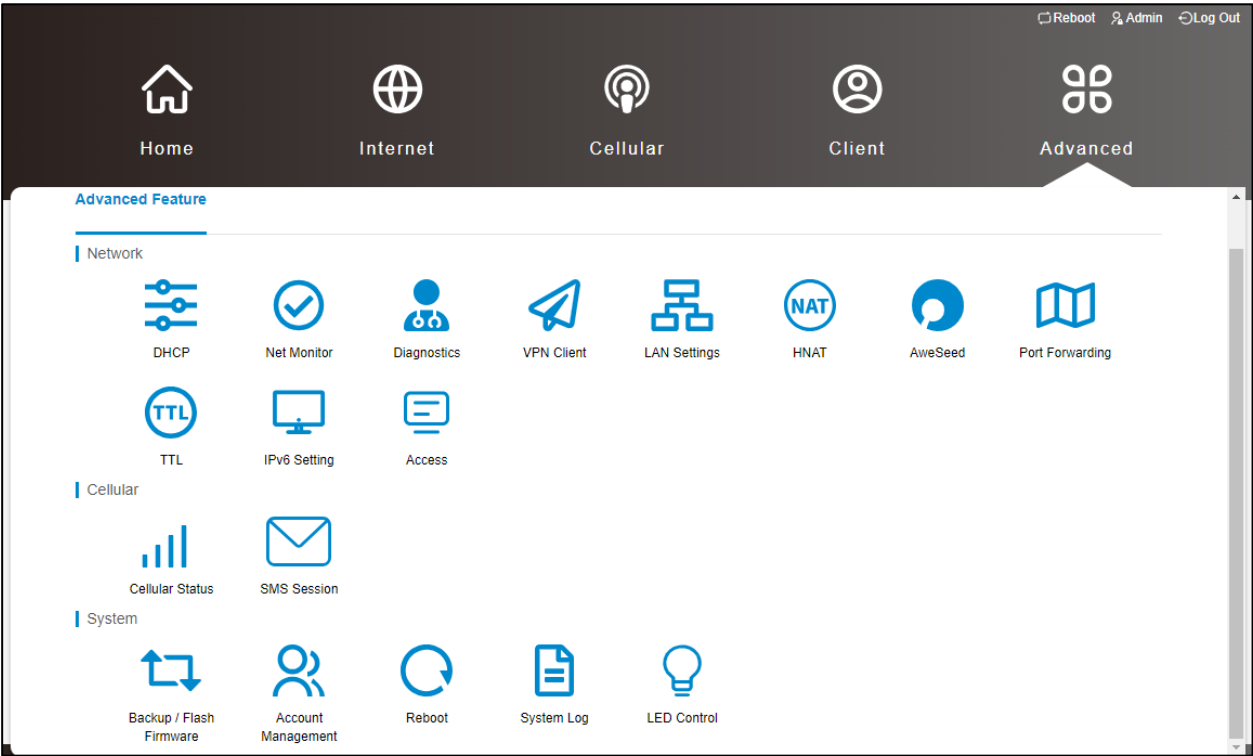
Edit Icon (Pencil): This icon next to the connected client's details allows you to edit the hostname.

Bandwidth: Displays the amount of bandwidth currently being used by the connected client.

User Flow: This column displays the data flow (e.g., upload/download speed) for the connected client.

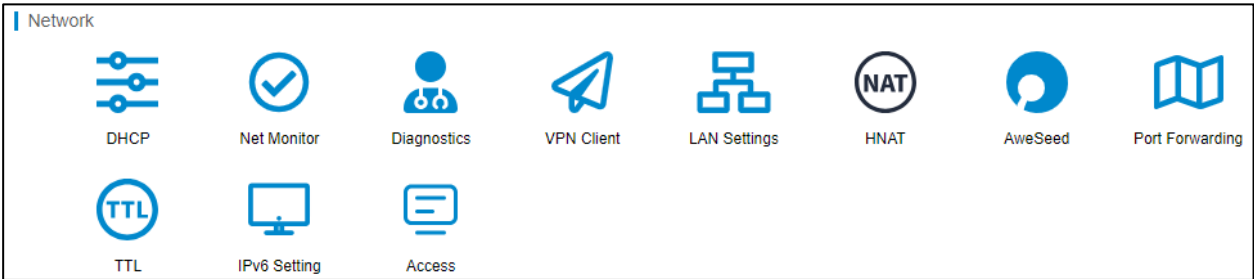
IX. Advanced

This section deals with the advanced features of the device. These features are divided into several sections, each with specific configuration options.

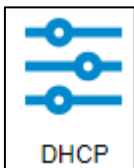


IX-1 Network

This section displays the Network settings options.



IX-1.1 DHCP



Click on the icon to configure DHCP settings, which assign IP addresses to devices on your network.

DHCP

DHCP

Start

4

Number of Clients

250

Note: The maximum number of clients is determined by the starting IP and intranet subnet mask. If you want to increase the number of users, please go to the "LAN Settings" page to modify the subnet mask.

IP Range

192.168.2.4 ~ 192.168.2.253

Lease Time (min)

1440

Active Leases

Hostname	IPv4 Address	MAC Address	Remaining Lease Time	Operation
TO0568	192.168.2.133	00:0e:c6:f0:42:25	21h 20m 53s	Change to Static

Static Leases

IPv4 Address	MAC Address	Hostname
This section contains no values yet		

Add

Click the **Save & Apply** button to save the current configuration settings and apply them to the network.

- **DHCP (Toggle Switch):**

- **On:** DHCP is enabled, meaning the device will automatically assign IP addresses to devices on the network.
- **Off:** DHCP is disabled, meaning IP addresses must be manually configured on each device.
- **Start:** Indicates the starting number for the last octet of the IP address assigned by DHCP. For example, with a starting number of 4, the first IP address assigned will be 192.168.2.4

- **Number of Clients:** Specifies the maximum number of devices that can be assigned IP addresses by the DHCP server. In this example, it is set to 250.
- **IP Range:** Shows the range of IP addresses that the DHCP server will assign to devices on the network. Here, the range is 192.168.2.4 to 192.168.2.253
- **Lease Time (min):** The amount of time, in minutes, that an IP address is leased to a device before it must be renewed. In this case, the lease time is set to 1440 minutes (which equals 24 hours).

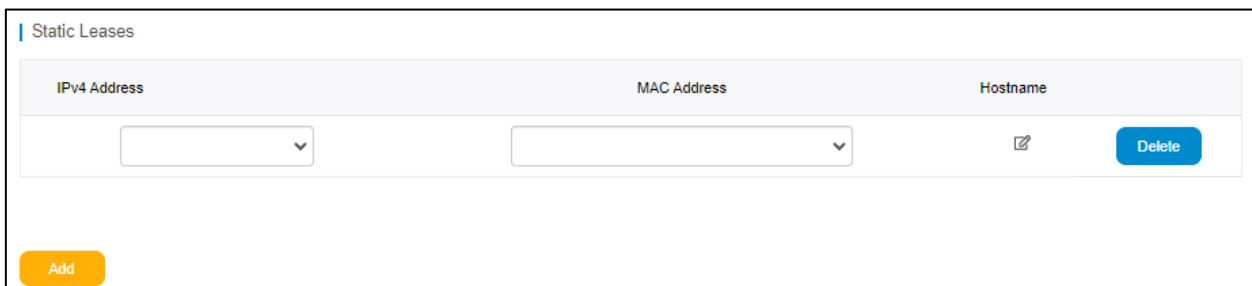
Active Leases Table:

- Lists devices currently connected to the network with an IP address assigned by the DHCP server. It includes columns for Hostname, IPv4 Address, MAC Address, Remaining Lease Time, and Operation.

Static Leases Table:

- Allows the assignment of specific IP addresses to particular devices based on their MAC address. This ensures that a device always receives the same IP address when connecting to the network.

Click the **Change to Static** button to convert a temporary, dynamically assigned IP into a permanent, static one, to ensure the device always receives the same IP, useful for devices needing a consistent address like servers or printers.



IPv4 Address	MAC Address	Hostname	
			☐ Delete

Click the **Add** button to create a new static lease, which would be defined by a specific IPv4 Address, MAC Address, and optionally a Hostname.

Click the **Delete** button to remove a static lease.

IX-1.2 Net Monitor



Click on the icon to check on the health of network connections (wired or cellular).

Wired

Wired Check

Cellular Check

DNS

☒

Ping

☒

Check Address

Ping Timeout

Ping Times

DNS Server

Max Fail

Period

Flow Speed (KB)

Save & Apply

Clicking the **Save & Apply** will save the current settings and apply them to the device.

DNS (Toggle Switch):

- This enables or disables DNS (Domain Name System) monitoring. If enabled, the device will check DNS availability.

Ping (Toggle Switch):

- This enables or disables ICMP ping monitoring. If enabled, the device will ping a specified IP address to monitor network connectivity.

Check Address:

- Currently set to 8.8.4.4 (Google's public DNS server). This is the IP address the device will ping to check network connectivity.

Ping Timeout:

- Set to 5 (in seconds).
This is the amount of time the device will wait for a response after sending a ping request before considering it a timeout.

Ping Times:

- Set to 3.
This is the number of times the device will ping the target address.

DNS Server:

- Set to 8.8.4.4, which is another Google DNS server.
This address will be used for DNS resolution checks.

Max Fail:

- Set to 3.
This is the maximum number of failed ping attempts before the device registers a connection failure.

Period:

- Set to 10.
This could refer to the interval (in seconds) between monitoring checks.

Flow Speed (KB):

- Set to 204800 KB (or 200 MB).
This setting might refer to a minimum flow speed threshold, potentially used for monitoring throughput or bandwidth performance.

Cellular Check

Wired Check	Cellular Check
DNS	☒
Ping	☒
Check Address	1.2.4.8
	www.baidu.com
Ping Timeout	12
Ping Times	3
DNS Server	1.2.4.8
Max Fail	8
Max Fail Hard	10
Period	10
Flow Speed (KB)	10240
Save & Apply	

DNS (Toggle Switch):

- The DNS monitoring is turned on, meaning the device will check DNS server availability as part of its network monitoring.

Ping (Toggle Switch):

- The Ping monitoring is also enabled. The device will send ping requests to monitor network connectivity.

Check Address:

- Set to 8.8.8.8 (Google's public DNS server).
The device will ping this IP address to check if it can reach the internet or a specific network service.

Ping Timeout:

- Set to 12 (in seconds).
This is the amount of time the device will wait for a response after sending a ping request before considering it a timeout.

Ping Times:

- Set to 3.
This is the number of times the device will attempt to ping the specified IP address.

DNS Server:

- Set to 8.8.8.8, another Google DNS server.
The device will perform DNS resolution checks against this server to ensure DNS services are operational.

Max Fail:

- Set to 8.
This is the maximum number of failed ping attempts before the device registers a connection failure.

Max Fail Hard:

- Added with a value of 10, potentially a more strict failure count for severe issues.

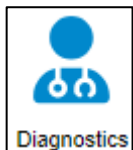
Period:

- The interval (in seconds) between each round of ping tests. It is set to 10 seconds.

Flow Speed (KB):

- Set to 10240 KB (or 10 MB).
This might be a threshold for monitoring bandwidth or throughput performance. If the network speed falls below this threshold, it may be flagged as a problem.

IX-1.3 Diagnostics



Click on the icon to troubleshooting network issues by testing connectivity.

Diagnostics

Tool

Ping

Address

Perform

Select the required tool from the drop-down menu. Upon inputting the IP address, click the **Perform** button to run the diagnostic.

Ping: Tests the reachability of a host (e.g., a website or another device) on an IP network. It sends packets to the specified address and waits for a response to measure the time it takes.

```
PING 192.168.2.1 (192.168.2.1): 56 data bytes
64 bytes from 192.168.2.1: seq=0 ttl=64 time=0.388 ms
64 bytes from 192.168.2.1: seq=1 ttl=64 time=0.319 ms
64 bytes from 192.168.2.1: seq=2 ttl=64 time=0.352 ms
64 bytes from 192.168.2.1: seq=3 ttl=64 time=0.429 ms
64 bytes from 192.168.2.1: seq=4 ttl=64 time=0.341 ms

--- 192.168.2.1 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 0.319/0.365/0.429 ms
```

Traceroute: Traces the path that data packets take from the device to the specified address. It helps identify where delays or failures occur in the route to the destination.

```
traceroute to 192.168.2.1 (192.168.2.1), 30 hops max, 38 byte packets
 1 192.168.2.1 0.044 ms
```

Nslookup: Used to query DNS (Domain Name System) to obtain domain name or IP address mapping. It can be used to find the IP address associated with a domain name or vice versa.

```
Server:      127.0.0.1
Address:     127.0.0.1#53

1.2.168.192.in-addr.arpa      name = nradio.in
```

IX-1.4 VPN Client



Click on the icon to set up a Virtual Private Network (VPN) connection on the device, allowing secure communication over a potentially insecure network.

VPN Client

Address	Gateway	DNS	Uptime
✕			

Enable ☐

Protocol PPTP

MPPE Encryption Enable ☒

VPN Server

Username

Password

Save & Apply

Once the settings are configured, click the **Save & Apply** button to save and apply the VPN client configuration.

Enable (Toggle Switch):

- This option is currently turned off. When switched on, it will enable the VPN client functionality.

Protocol: This dropdown menu allows you to choose the VPN protocol to use.

The options displayed are:

- **PPTP (Point-to-Point Tunneling Protocol):** An older VPN protocol that is fast but considered less secure compared to modern standards.
- **L2TP (Layer 2 Tunneling Protocol):** A VPN protocol that is usually combined with IPsec for added security. It is more secure than PPTP but might be slower due to encryption overhead.

MPPE Encryption Enable (Toggle Switch):

- MPPE (Microsoft Point-to-Point Encryption) is enabled. This adds encryption to the PPTP connection to provide some level of data security.

VPN Server:

- Enter the IP address or domain name of the VPN server to which the device will connect.

Username:

- Enter the username required to authenticate with the VPN server.

Password:

- Enter the password associated with the provided username. The password is masked for security.

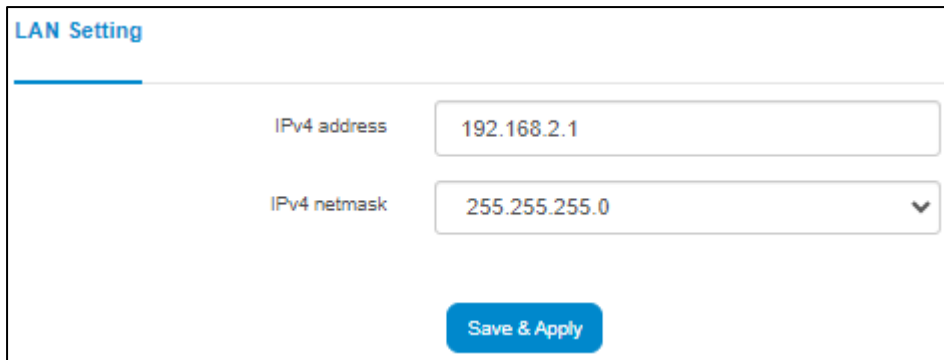
The table at the top contains columns for **Address**, **Gateway**, **DNS**, and **Uptime**. These columns will display connection information once the VPN client is connected and active. For example:

- **Address:** The assigned IP address from the VPN server.
- **Gateway:** The gateway IP used by the VPN.
- **DNS:** The DNS server provided by the VPN.
- **Uptime:** How long the VPN connection has been active.

IX-1.5 LAN Settings



Click on the icon to configure IPv4 LAN settings.

A screenshot of a web interface titled "LAN Setting". It contains two input fields: "IPv4 address" with the value "192.168.2.1" and "IPv4 netmask" with the value "255.255.255.0" and a dropdown arrow. At the bottom, there is a blue button labeled "Save & Apply".

LAN Setting	
IPv4 address	192.168.2.1
IPv4 netmask	255.255.255.0 ▼
<button>Save & Apply</button>	

IPv4 address:

- This is the IP address assigned to the router on the local network. Devices connected to the router will use this IP address as their gateway to access other networks, such as the internet. In this example, the IP address is set to 192.168.2.1. This is a private IP address commonly used in home and small office networks.

IPv4 netmask:

- This defines the subnet mask for the network, which determines the network's size. In this case, the netmask is set to 255.255.255.0. This is a common subnet mask that allows for 254 usable IP addresses in the network range (192.168.2.1 to 192.168.2.254).

The subnet mask 255.255.255.0 corresponds to a /24 network, meaning the first 24 bits are used for network identification, and the remaining 8 bits are used for host identification within that network.

Once you've configured these settings, click the **Save & Apply** button to save the configuration and apply it to the router, setting the LAN parameters according to the entered values.

IX-1.6 HNAT



Click on the icon to configure Hardware NAT settings.

HNAT

HNAT

☒

1. After hardware NAT is enabled, data is forwarded through hardware, which can greatly improve data forwarding efficiency and Internet access rate.

2. Since the hardware forwarding does not pass through the CPU, the client management functions such as traffic statistics and network speed limitation will not be able to be used normally.

Save & Apply

- HNAT (Hardware NAT): When enabled, data is forwarded through dedicated hardware, improving data forwarding efficiency and internet speed.
- Client Management Functions: Disabling HNAT means traffic statistics and network speed limitations will not function properly since data bypasses the CPU.

Click the **Save & Apply** button to apply the settings.

IX-1.7 AweSeed



Click on the icon to configure Hardware NAT settings.

Basic Settings

AweSeed network

AweSeed SD-WAN Solution can create virtual network on-demand in minutes. AweSeed is a virtual networking service that enables you securely extend LAN-like networks to mobile workers and distributed team.
official website: pgy.oray.com [Gocloud platform](#) [Official Website](#) [Using help](#)

Basic Settings

Network status

Switch

☐

SN/Account

Get the SN code

Password

Forgot password

Save & Apply

Register Account

Click on the toggle switch to enable or disable the AweSeed virtual network service, allowing quick setup of an on-demand virtual network.

- **SN/Account:** Enter the serial number or account information to activate or configure the AweSeed service.
- **Get the SN Code:** Retrieves the serial number for the associated AweSeed account.
- **Password:** Input the password for the AweSeed account to authenticate.
- **Forgot Password:** Resets the password if it has been forgotten.

Click the **Save & Apply** button to Save and apply the configured settings.

Click the **Register Account** button to allow users to create a new AweSeed account if they do not already have one.

IX-1.8 Port Forwarding



Click on the icon to set up a port forwarding rule.

Port Forwarding

Rule Count: 0 Add

Item	Internal IP address	Internal port	Protocol	External port	status	Operation
This section contains no values yet						

Save & Apply

- **Rule Count:** Displays the number of configured port forwarding rules. In the above image, it's set to 0, meaning no rules have been added yet.
- **Add Button:** Allows you to add a new port forwarding rule.
- **Table Headers:**
 - **Item:** Indicates the rule number or identifier.
 - **Internal IP Address:** The local IP address of the device on your network that will receive the forwarded traffic.
 - **Internal Port:** The port on the internal device that will receive the forwarded traffic.
 - **Protocol:** Specifies the protocol used for the forwarding rule (e.g., TCP, UDP).
 - **External Port:** The port on the external (public) side of the network that will be open to incoming traffic.
 - **Status:** Displays whether the rule is enabled or disabled.
 - **Operation:** Provides options for editing or deleting the rule.
- Click the **Save & Apply** button to save the settings and apply the changes.

IX-1.9 TTL



Click on the icon to display a configuration screen for setting the **TTL (Time to Live)** value for IPv4 packets on a network device.

TTL (Time to Live): This parameter controls the lifespan or hop limit of data packets as they travel across a network. A packet's TTL value decreases by 1 each time it passes through a router, and when it reaches 0, the packet is discarded. This mechanism prevents packets from circulating indefinitely. Setting the TTL can be important in controlling network behavior, especially in larger or complex networks where optimizing data flow is critical.

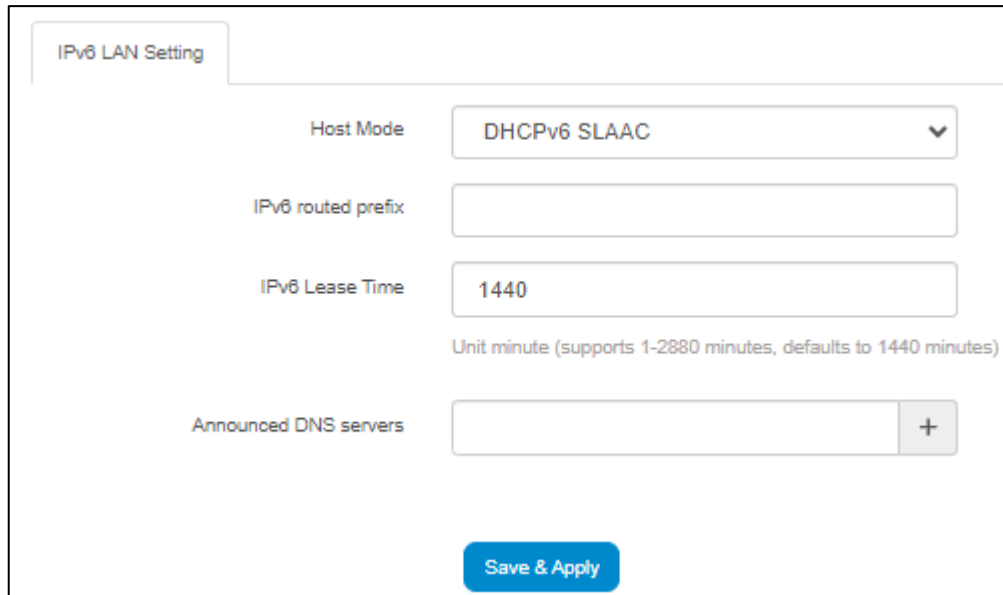
- **IPv4 TTL:** Enter a TTL value for IPv4 packets. TTL is a value in each IP packet that determines how long the packet can exist before being discarded. It prevents packets from endlessly circulating if there's a routing loop.
- **Value Range:** The allowed range for TTL is from 1 to 255. The recommended value is 64, which is the default on many systems.
- **Guidance:** The instructions indicate that if you leave the field empty, the system will use the default value.

After entering the desired TTL value, click the **Save & Apply** button to save and apply the configuration changes.

IX-1.10 IPv6 Setting



Click on the icon to configure IPv6 LAN settings, generally used in advanced network configurations.



- **Host Mode:** This dropdown allows you to select the IPv6 host configuration mode. The selected option is "DHCPv6 SLAAC". SLAAC (Stateless Address Autoconfiguration) is a method that enables devices on the network to automatically configure their own IP addresses using router advertisements.
- **IPv6 Routed Prefix:** This field allows you to specify the IPv6 prefix that should be routed to the local network. This would typically be provided by your ISP or network administrator.
- **IPv6 Lease Time:** The lease time is the duration (in minutes) that an IPv6 address is assigned to a device before it must be renewed. The default value is 1440 minutes (24 hours). The range can be set between 1 and 2880 minutes.
- **Announced DNS Servers:** Enter the DNS server addresses that will be announced to the devices on the network via IPv6.

Click the **Save & Apply** button to save the changes made and apply them to the network configuration.

IX-1.11 Access



Click on the icon to set rules based on device addresses to control which devices can connect to the network .

Access

Access Control ☐

Mode ☒ BlackList
Terminals on the blacklist are not allowed to access the network of this device.
☐ WhiteList

Add

No.	Address	Operation
-----	---------	-----------

Access Control Toggle: This switch enables or disables access control. When switched on, access control settings become active, allowing you to manage which devices can connect to the network.

Mode:

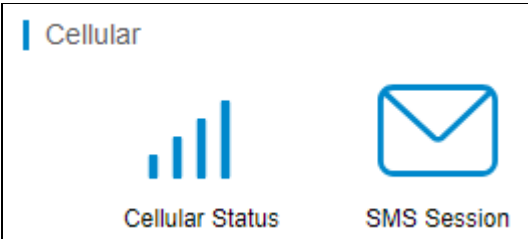
- **Blacklist:** This option, which is selected in the image, blocks specific devices from accessing the network. Devices added to the blacklist will not be able to connect.
- **Whitelist:** If this option is selected, only devices on the whitelist will be allowed to access the network, while all others will be blocked.

Click the **ADD** button to add devices to either the blacklist or whitelist, depending on which mode is selected. Then you can input the MAC address or other identifiers of the devices you want to control.

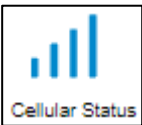
Device List: Below the settings, there is a table with columns for "No.", "Address," and "Operation." This table lists the devices that have been added to the blacklist or whitelist, showing their MAC addresses (or other identifiers) and providing options to remove or edit them.

IX-2 Cellular

This section displays the Cellular settings options.

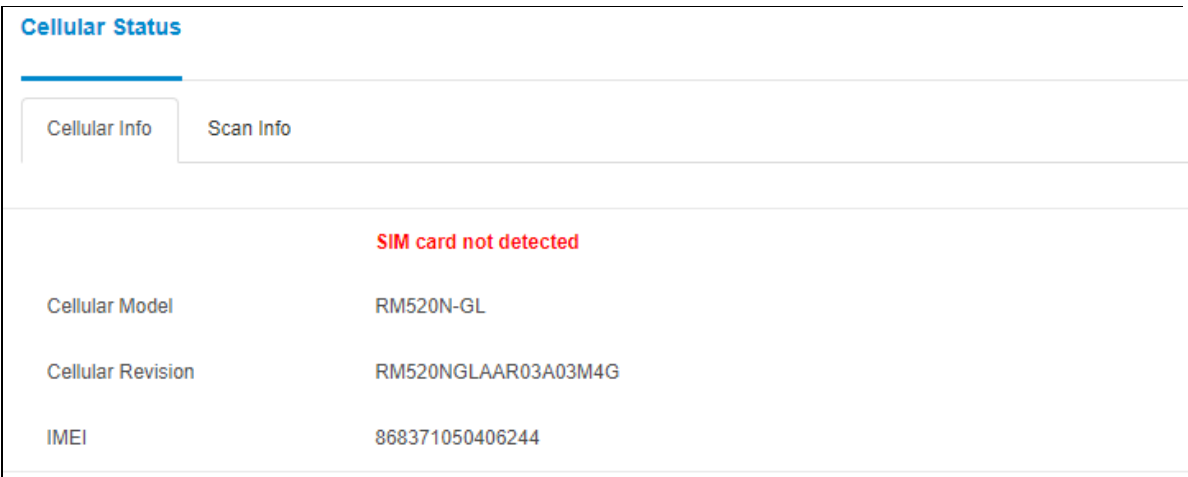


IX-2.1 Cellular Status



Click on the icon to monitor and troubleshoot the cellular connection of a device.

Cellular Info



SIM card not detected: This message is shown in red and indicates that the device is not detecting a SIM card. This could be due to the SIM card not being inserted, inserted incorrectly, or possibly an issue with the SIM card reader.

Cellular Model: The model of the cellular module in the device is listed as **EC25**. This refers to a specific cellular modem or module, used for mobile broadband connectivity.

Cellular Revision: This shows the revision or firmware version of the cellular module, listed as **RM520NGLAAR03A03M4G**. It provides technical details about the specific version of the hardware or software running on the module.

IMEI: The **IMEI (International Mobile Equipment Identity)** is a unique number assigned to the cellular module, listed here as **868371050406244**. This number is used to identify the device on the mobile network.

Scan Info

Cellular Status

Cellular Info

Scan Info

Scan Neighbourcell

- **Scan Info:** contains details related to scanning for cellular networks or nearby cell towers.

Scan Neighbourcell: Clicking this button initiates a scan to detect nearby cellular cells (cell towers) that the device can potentially connect to. This feature is typically used to check the strength and availability of cellular networks in the vicinity.

IX-2.2 SMS Session



Click on the icon to bring you to the create SMS session page.

SMS Session

Create Session

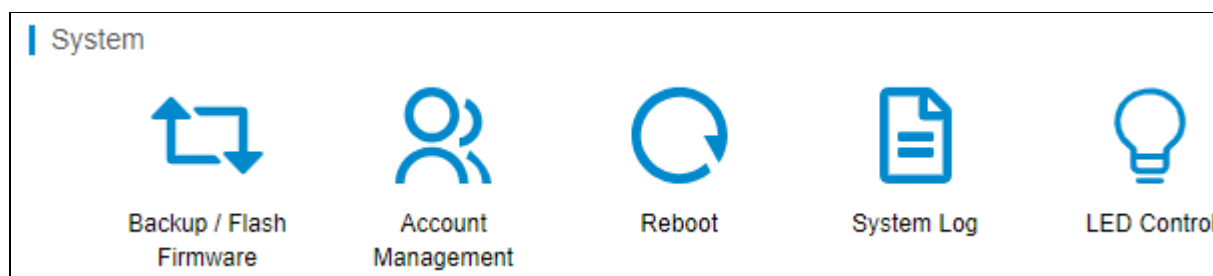
Contact	Content	Date	Operation
---------	---------	------	-----------

Click the **Create Session** button to initiate a new SMS session.

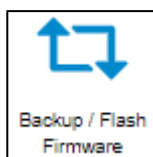
- **Contact:** The recipient or sender of the SMS.
- **Content:** The body or message content of the SMS.
- **Date:** The timestamp of when the SMS was sent or received.
- **Operation:** Actions you can take on the SMS session (e.g., edit, delete).

IX-3 System

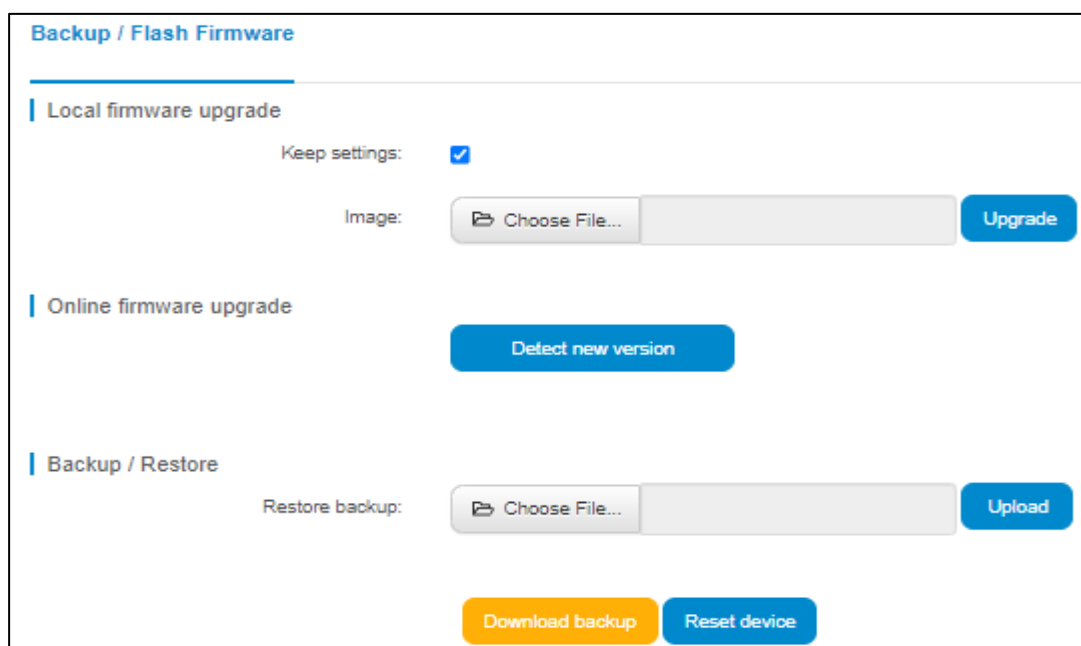
This section displays the System settings options.



IX-3.1 Backup / Flash Firmware



Click on the icon to manage firmware upgrades, backups, and restorations of the device's configuration.

A screenshot of the "Backup / Flash Firmware" settings page. The page has a light blue header with the title "Backup / Flash Firmware". Below the header, there are three sections: "Local firmware upgrade", "Online firmware upgrade", and "Backup / Restore". The "Local firmware upgrade" section has a "Keep settings:" checkbox which is checked, an "Image:" label, a "Choose File..." button, and an "Upgrade" button. The "Online firmware upgrade" section has a "Detect new version" button. The "Backup / Restore" section has a "Restore backup:" label, a "Choose File..." button, and an "Upload" button. At the bottom of the page, there are two buttons: "Download backup" and "Reset device".

- **Local Firmware Upgrade**

- **Keep settings:** Checkbox to retain the current device settings after the firmware upgrade.
- **Image:** Option to upload a firmware file from your local device.
- **Upgrade:** Button to apply the uploaded firmware image and upgrade the device's firmware.

- **Online Firmware Upgrade**

- **Detect new version:** Button to check online for the latest available firmware version. If available, the user can download and upgrade directly from the internet.
- **Backup / Restore**
 - **Restore backup:** Option to upload a backup configuration file to restore the device settings.
 - **Upload:** Button to apply the uploaded backup file and restore the device's configuration.
- **Additional Options**
 - **Download backup:** Button to download the current configuration of the device as a backup file.
 - **Reset device:** Button to reset the device to factory default settings.

IX-3.2 Account Management



Click on the icon to change the device's password.

Account Management

Password

Confirmation

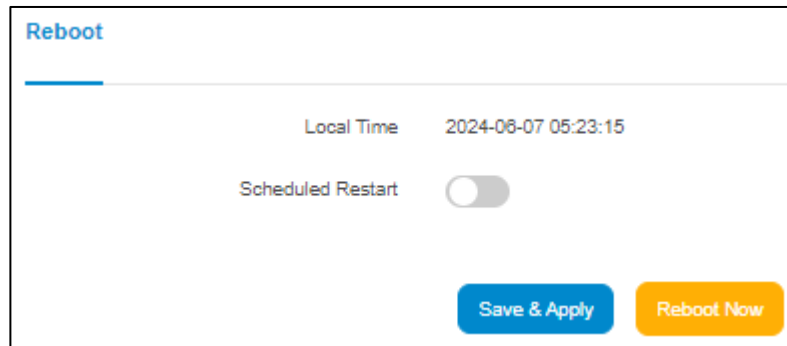
Save & Apply

Input the new password (5-64 characters) in the Password box and re-enter it in the Confirmation box to confirm. Then, click the Save & Apply button to update the device's password.

IX-3.3 Reboot

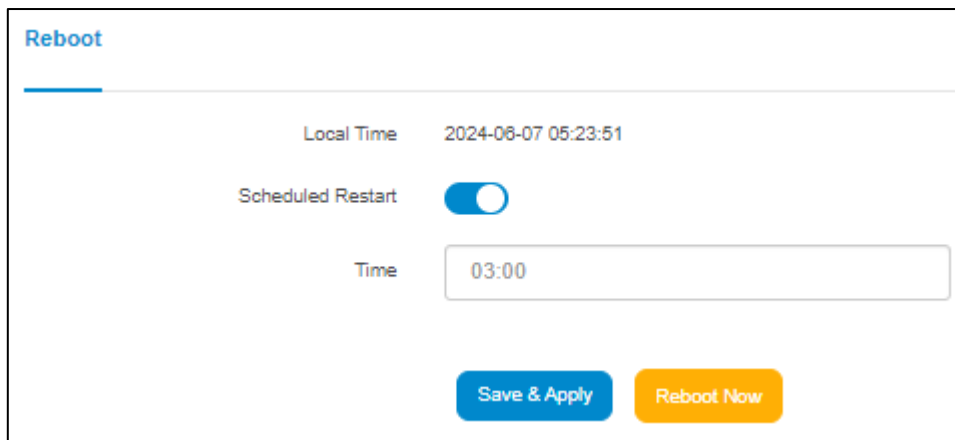


Click on the icon to display the "Reboot" options.



Local Time: Displays the current local time of the device, which helps in scheduling tasks like restarts based on the correct time zone.

Scheduled Restart: A toggle switch that enables or disables the automatic restart feature of the device. When enabled, the device will reboot at a set time each day.

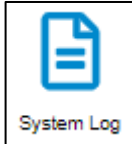


Time: This field allows you to set the specific time at which the scheduled reboot will occur. The time is entered in a 24-hour format (e.g., "03:00" for 3:00 AM).

Save & Apply: This button is used to save and apply the scheduled reboot settings. Once clicked, the device will follow the configured schedule.

Reboot Now: This button immediately reboots the device when clicked. It provides a manual option for restarting the device without waiting for the scheduled time.

IX-3.4 System Log



Click on the icon to view the system log.

System Log

Export

```
2024-06-07T04:14:47.588943+02:00 6 kernel:led!
2024-06-07T04:14:47.589628+02:00 4 kernel:[ 31.156665] E2pAccessMode=2
2024-06-07T04:14:47.589681+02:00 4 kernel:[ 31.160315] SSID[0]=MT7663E.2.1.AP, Edcaldx=0
2024-06-07T04:14:47.589716+02:00 4 kernel:[ 31.165097] SSID[1]=MT7663E.2.2.AP, Edcaldx=0
2024-06-07T04:14:47.589749+02:00 4 kernel:[ 31.169888] SSID[2]=MT7663E.2.3.AP, Edcaldx=0
2024-06-07T04:14:47.589826+02:00 4 kernel:[ 31.174686] SSID[3]=MT7663E.2.4.AP, Edcaldx=0
2024-06-07T04:14:47.589864+02:00 4 kernel:[ 31.180418] cfg_mode=14
2024-06-07T04:14:47.589898+02:00 4 kernel:[ 31.182896] cfg_mode=14
2024-06-07T04:14:47.589930+02:00 4 kernel:[ 31.185372] cfg_mode=14
2024-06-07T04:14:47.589963+02:00 4 kernel:[ 31.187855] wmode_band_equal(): Band Equal!
2024-06-07T04:14:47.589995+02:00 4 kernel:[ 31.192381] auto_ch_select_set_cfg(): BandIdx0, AutoChannelAtBootup=0, AutoChannelAlg = 0
2024-06-07T04:14:47.590028+02:00 4 kernel:[ 31.201199] BssIdx(0) wdev->channel=36
2024-06-07T04:14:47.590061+02:00 4 kernel:[ 31.204995] BssIdx(1) wdev->channel=36
2024-06-07T04:14:47.590093+02:00 4 kernel:[ 31.208806] BssIdx(2) wdev->channel=36
2024-06-07T04:14:47.590152+02:00 4 kernel:[ 31.212603] BssIdx(3) wdev->channel=36
2024-06-07T04:14:47.590192+02:00 4 kernel:[ 31.216398] Index0 Channel=36
2024-06-07T04:14:47.590226+02:00 4 kernel:[ 31.221484] BandSteering=0
2024-06-07T04:14:47.590260+02:00 4 kernel:[ 31.224478] BndStrgBssIdx=
2024-06-07T04:14:47.590293+02:00 4 kernel:[ 31.227559] [TxPower] BAND0: 100
2024-06-07T04:14:47.590327+02:00 4 kernel:[ 31.231162] [PowerUpenable] BAND0: 0
2024-06-07T04:14:47.590361+02:00 4 kernel:[ 31.235121] [SKUenable] BAND0: 0
2024-06-07T04:14:47.590394+02:00 4 kernel:[ 31.239096] [PERCENTAGEenable] BAND0: 1
2024-06-07T04:14:47.590455+02:00 4 kernel:[ 31.243233] [BFBACKOFFenable] BAND0: 0
2024-06-07T04:14:47.590493+02:00 4 kernel:[ 31.247334] LinkTestSupport = 0
```

Click on the **Export** button to download the log file.

IX-4.5 LED Control



Click on the icon to manage the status and scheduling of an LED device.

LED Status: This toggle switch controls whether the LED is turned on or off. In the image, the LED is currently turned on (the switch is blue and in the "on" position).

The image shows a web interface titled "LED Control". It contains two toggle switches: "LED Status" which is currently turned on (blue), and "Schedule" which is currently turned off (grey). At the bottom right, there is a blue button labeled "Save & Apply".

Schedule: This toggle switch allows you to enable or disable a schedule for the LED. The schedule is currently enabled in the image below.

The image shows a more detailed "LED Control" interface. It includes the "LED Status" and "Schedule" toggle switches, both of which are now turned on (blue). Below these, the "Local Time" is displayed as "2024-08-07 05:29:41". There are two sets of dropdown menus for "Start schedule" and "End schedule", both currently set to "0". A blue "Save & Apply" button is at the bottom right.

Local Time: This displays the current local time. In the image, the local time is shown as "2024-08-07 05:29:41."

Start Schedule: Here, you can set the time at which the LED should automatically turn on. The time is set using dropdown menus for hours and minutes. Currently, both are set to "0," meaning the schedule hasn't been specified yet.

End Schedule: Similarly, this section allows you to set the time at which the LED should automatically turn off. Like the start time, it is set to "0" hours and "0" minutes, indicating no specific end time has been set.

Save & Apply: This button is used to save any changes made to the LED status or schedule settings.

X. More Information

For detailed instructions, you can find user manuals and all supporting documents from the link below or via the QR code:

<https://www.edimax.com/download/>

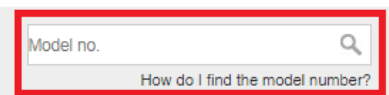


Please search the model name “5G-8649AX” to enter the referred page.

Download

To select your product and find related download materials, enter the model number into the search box on the right side or follow the simple steps below:

*Feel free to contact us anytime if you need help or if you can't find your product.

A screenshot of a web interface showing a search box. The box is labeled 'Model no.' and has a magnifying glass icon on the right. Below the box, there is a link that says 'How do I find the model number?'. The entire search area is highlighted with a red rectangular border.

XI. Safety Instructions

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- This product is designed for indoor use only.
- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- The device contains no user-serviceable parts. Do not attempt to service the product and never disassemble the product.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation.
- Keep the product away from radiators and other heat sources.
- This device is not designed to be operated by children.
- Always unplug the product from main power source before cleaning and use a dry lint free cloth only.

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R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None

EU Declaration of Conformity

- English:** This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU.
- Français:** Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/30/EU.
- Čeština:** Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnice 2014/30/EU.
- Polski:** Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/30/EU.
- Română:** Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivei 2014/30/EU.
- Русский:** Это оборудование соответствует основным требованиям и положениям Директивы 2014/30/EU.
- Magyar:** Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek (2014/30/EU).
- Türkçe:** Bu cihaz 2014/30/EU. direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.
- Українська:** Обладнання відповідає вимогам і умовам директиви 2014/30/EU.
- Slovenčina:** Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/30/EU.
- Deutsch:** Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/30/EU.
- Español:** El presente equipo cumple los requisitos esenciales de la Directiva 2014/30/EU.
- Italiano:** Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/30/EU.
- Nederlands:** Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2014/30/EU.
- Português:** Este equipamento cumpre os requisitos essenciais da Directiva 2014/30/EU.
- Norsk:** Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2014/30/EU.
- Svenska:** Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2014/30/EU.
- Dansk:** Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante forordninger i direktiv 2014/30/EU.
- suomen kieli:** Tämä laite täyttää direktiivien 2014/30/EU. oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

FOR USE IN



WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European Radio Equipment directives.

Equipment: 5G NR WiFi 6 Router

Model No.: 5G-8649AX

The following European standards for essential requirements have been followed:

Directives 2014/53/EU

Spectrum : ETSI EN 300 328 V2.2.2 (2019-07)
ETSI EN 301 893 V2.1.1 (2017-05)
ETSI EN 300 440 V2.1.1 (2017-03)
ETSI EN 301 908-1 V15.2.1 (2023-01)
ETSI EN 301 908-2 V13.1.1 (2020-06)
ETSI EN 301 908-13 V13.2.1 (2022-02)
ETSI TS 138-521-1 V17.10.0 (2013-10)
ETSI TS 138-521-3 V17.10.0 (2013-10)
ETSI EN 301 908-25 V15.1.1 (2024-10)

EMC : ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-3 V2.3.2 (2023-01)
ETSI EN 301 489-17 V3.2.4 (2020-09)
ETSI EN 301 489-52 V1.2.1 (2021-11)
EN 55032:2015+A11:2020
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013+A2:2021
EN 55035:2017+A11:2020

EMF : EN IEC 62311:2020
EN 50385:2017
EN 62232:2017

Safety (LVD) : EN IEC 62368-1:2020+A11:2020

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Date & Place of Issue: 31/July/2024, Taipei

Signature:



Printed Name: Hunter Chen

Title: Director

