PEPWAVE

5G Adapter User Manual

April 2026

Table of Contents

1. Introduction

1.1 Packing List

- 1x 5G Adapter
- 1x 12V 2A 4 Pin Power Supply
- 4x LTE/5G Antennas (ACW-235)
- 1x GPS Active Antenna

1.2 Default Login Credentials

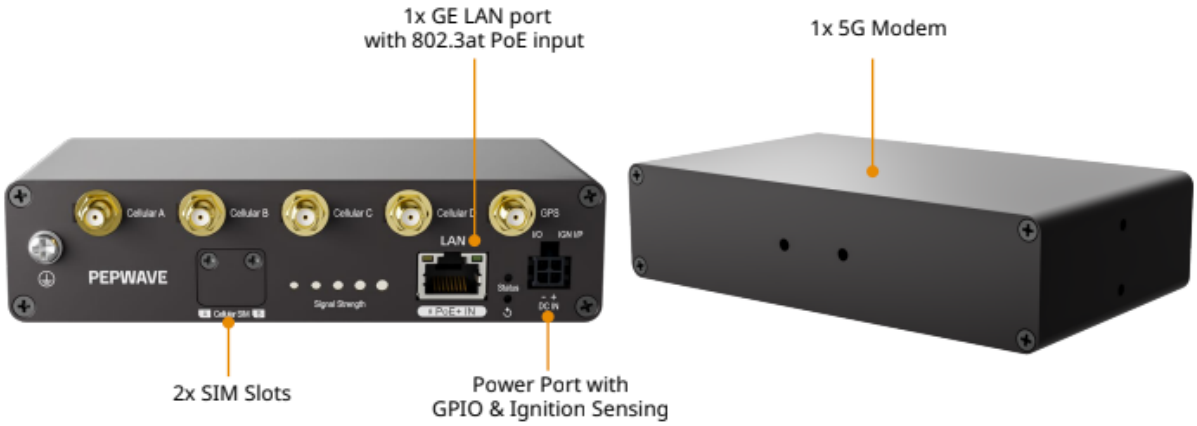
Login address: https://192.168.50.1 (via LAN interface)
Username: admin
Password: admin

1.3 Power Options

The 5G Adapter supports a 4-pin Micro-Fit connector for DC power input or 802.3at PoE+ input.

2. 5G Adapter Overview

2.1 Panel Appearance



LED Indicator: The statuses indicated by the front panel LEDs are as follows:

Status Indicator		
Status	OFF	Power off
	Red	Booting up
	Steady Green	Ready
	Blinking Green	Upgrading firmware

LAN Port Status Indicator		
Green LED	ON	10 / 100/ 1000 Mbps
Orange LED	Blinking	Data is transferring
	OFF	No data is being transferred or port is not connected

Signal Strength Status Indicator						
	0 bars	**1 bars**	**2 bars**	**3 bars**	**4 bars**	**5 bars**
5G / LTE (RSRP)	>= -140	>= -128	>= -121	>= -114	>= -108	>= -98
3G (RSCP)	>= -120	>= -110	>= -97	>= -85	>= -73	>= -49

3. Access to Configuration UI

3.1 Local Access

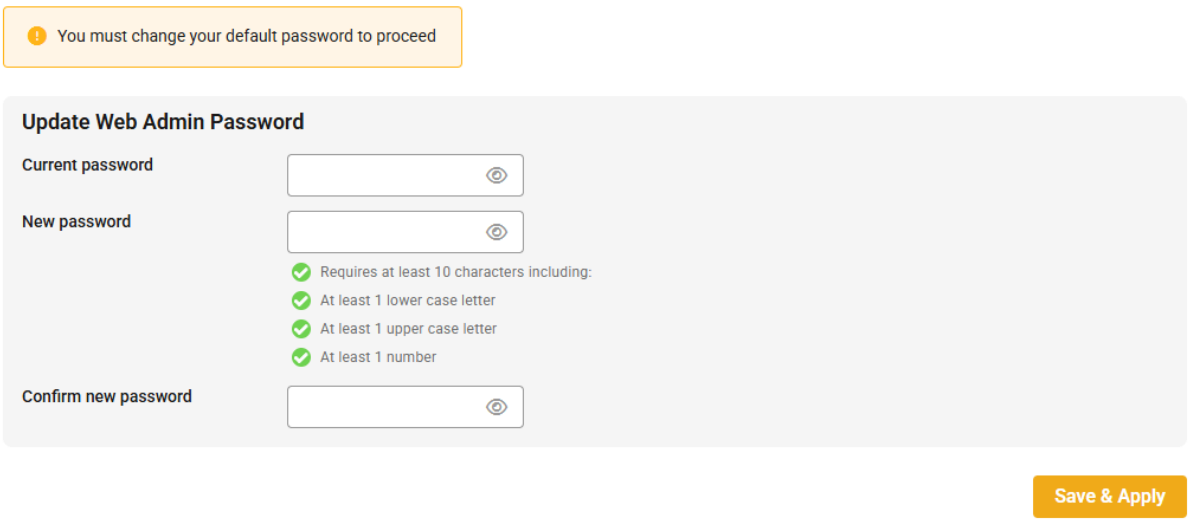
Step 1: Connect the 5G Adapter to a device accessible to the WEB configuration UI via the LAN interface.^

Step 2: Enter https://192.168.50.1^ as the URL of a browser. A login page will pop up.

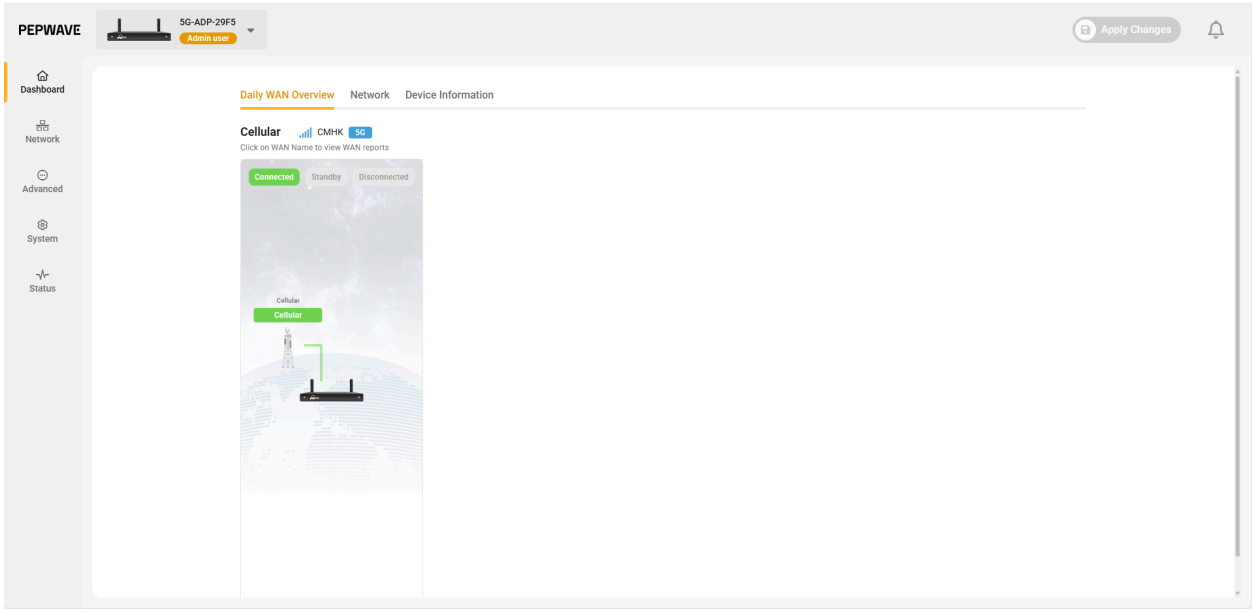
^Please note the default IP address could be occupied by the upstream device of the computer. If this is the case, you could change the gateway IP address of the upstream device.

Step 3: Log in to the device with the following information.
Default username: admin
Default password: admin

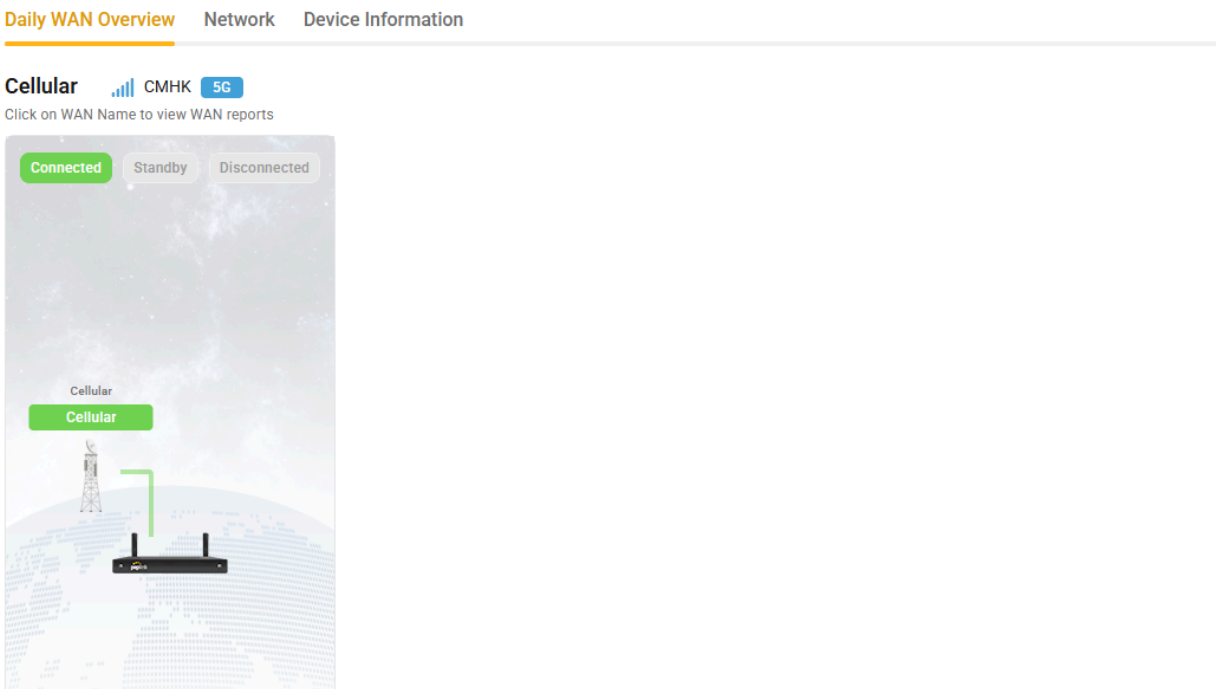
Step 4: Follow the guide and change the login password.
A device first login is required to change the password. Insert the “Current Password”, “New Password”, “Confirm Admin Password”, and click “Save”.



3.2 Dashboard

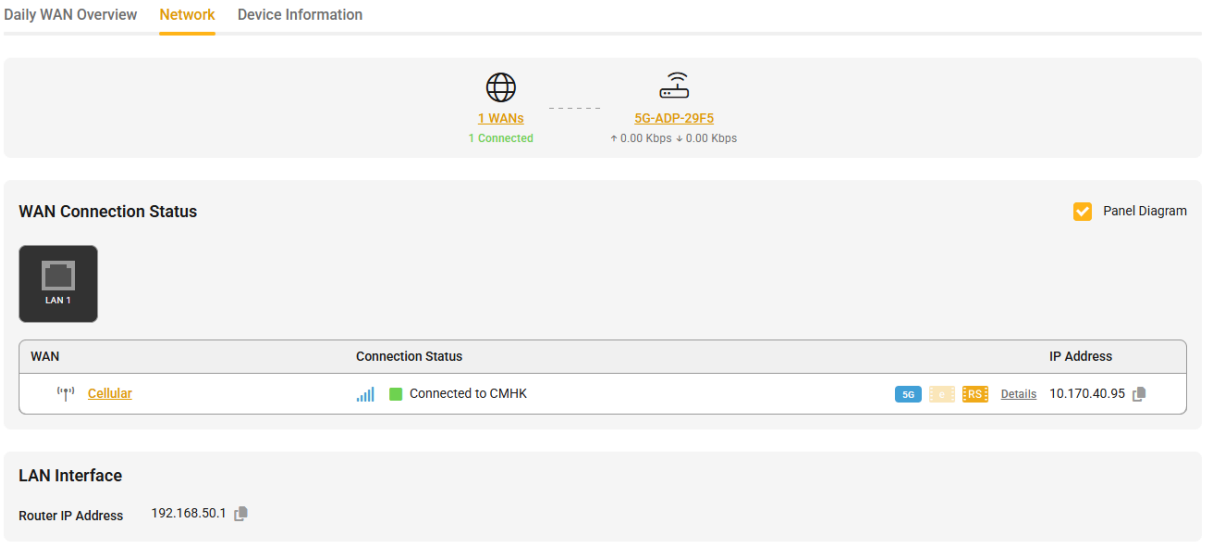


3.2.1 Daily WAN Overview

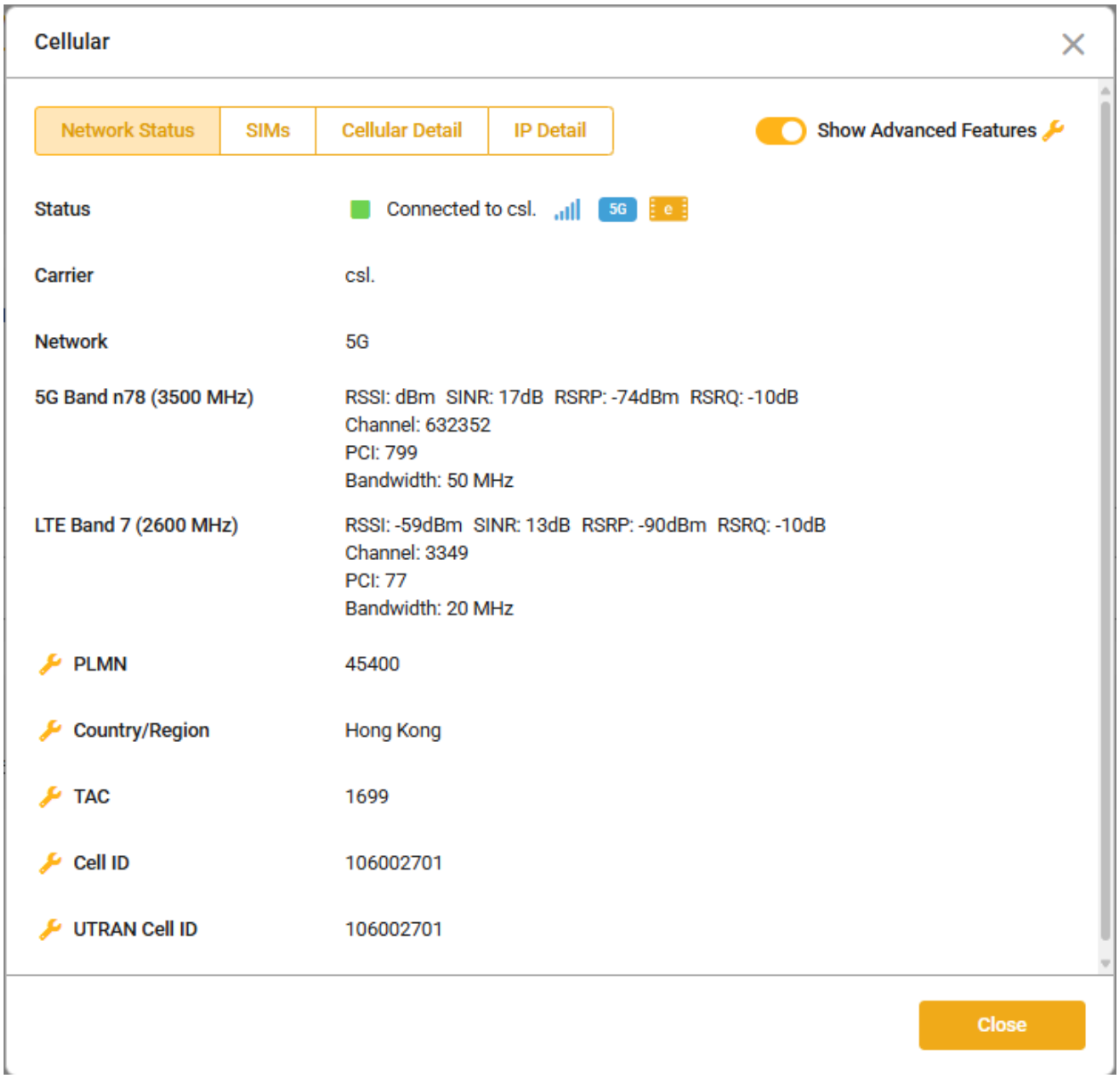


An overview of the device connected WAN and the WAN connection status.

3.2.2 Network



WAN Connection Status	
Panel Diagram	Shows or hides the LAN port diagram
WAN	WAN connection interface. Click and redirect to WAN connection settings.
Connection Status	Display WAN connection status.
IP address	IP address assigned by its uplink/ISP. Click “Details” to display more connection details.



Network Status	
Status	Display connection status and SIM in use.
Carrier	Display network provider.
Network	Display connected network band (5G / LTE).

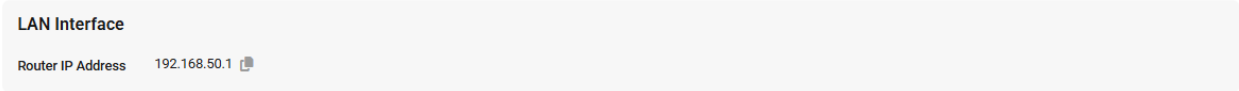
Band	Display signal strength and connected bands (frequencies).
PLMN	Display connected SIM PLMN (Public Land Mobile Network).
Country/Region	Display SIM provider country.
TAC	Track Area Code is the location code of the connected base station.
Cell ID	This is a unique identifier assigned to each cell tower by a cellular network.
UTRAN Cell ID	This is a concatenation of the RNC-ID (12 bits, ID of the Radio Network Controller) and Cell ID.

SIMs	
IMSI	This is the International Mobile Subscriber Identity, which uniquely identifies the SIM card.
ICCID	This is a unique number assigned to a SIM card used in a cellular device.

Cellular Detail	
IMEI	This is the unique ID for identifying the modem in GSM/HSPA mode.
EID	This is a unique 32-digit number permanently embedded in devices with eSIM technology.
Manufacturer	This is the manufacturer of the cellular module.
Model	The model of the cellular module.
Firmware	The firmware version running on the cellular module.

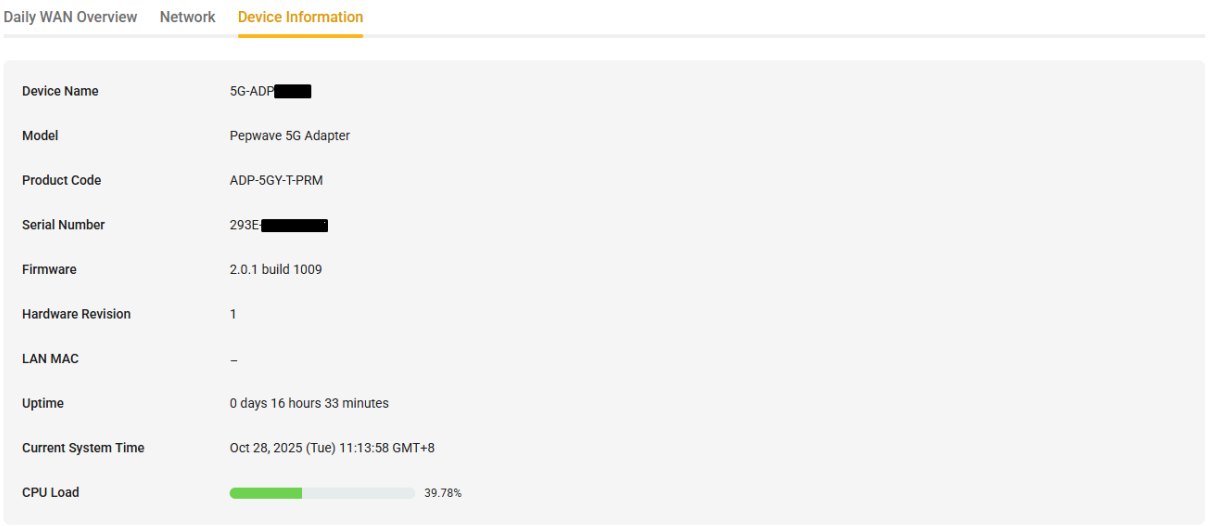
IP Detail	
IP address	The IP address assigned by the ISP.

Subnet mask	The subnet mask of the assigned IP address.
Default gateway	Display the default gateway IP address.
DNS Servers	Display the DNS server IP address.
MTU	This field displays the Maximum Transmission Unit value of the WAN connection.



LAN Interface	
Device IP address	Display of the device IP address. Click the icon to copy the IP address.

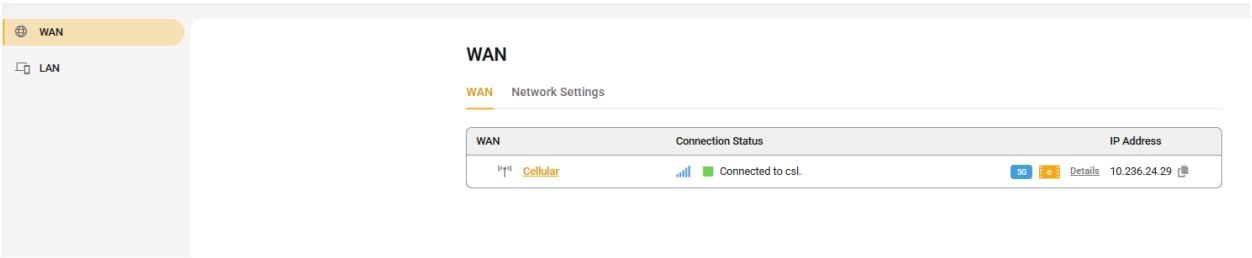
3.2.3 Device Information



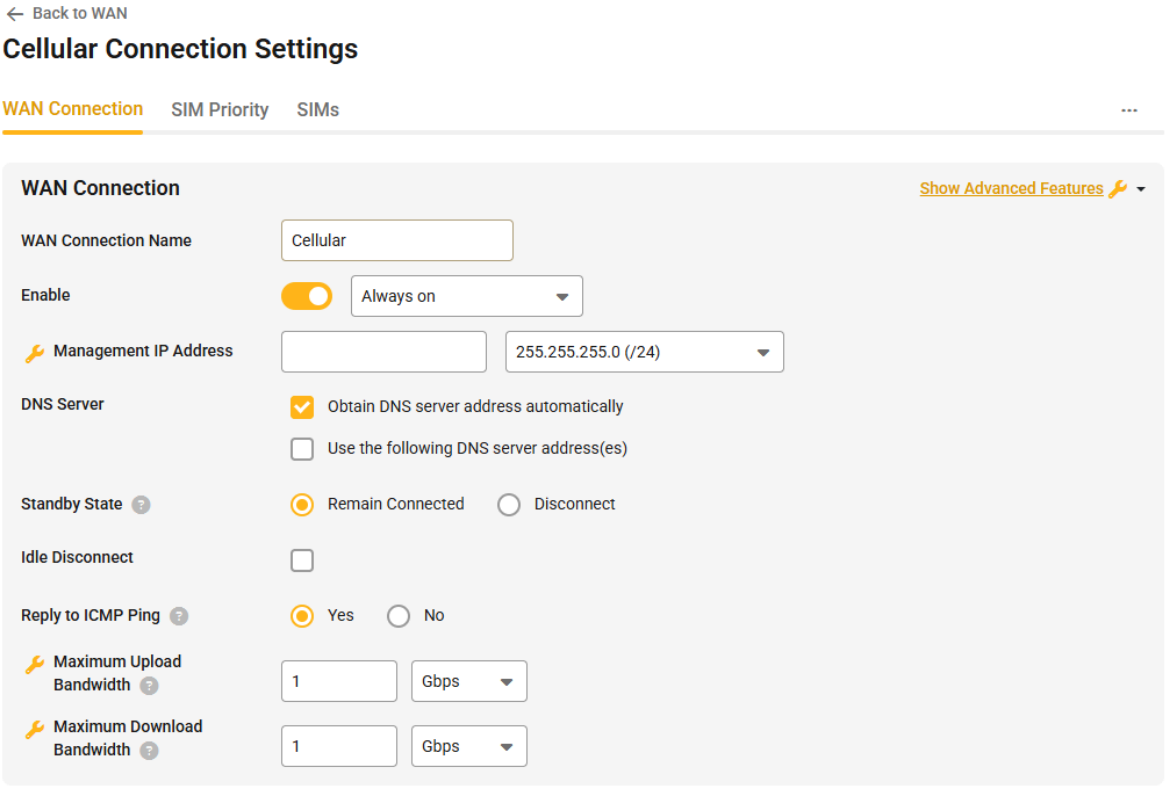
System Information	
Device Name	This is the name specified in the Device Name field located at **Modem Settings > Admin Settings**.
Model	This shows the model name and number of this device.
Product Code	If your model uses a product code, it will appear here.
Serial Number	This shows the serial number of this device.
Firmware	This shows the firmware version this device is currently running.
Hardware Revision	This shows the hardware version of this device.
LAN MAC	The MAC address of the device's LAN.
Uptime	This shows the length of time since the device has been rebooted.
Current System Time	This shows the current system time.
CPU Load	This field shows the current loading (0%-100%) on your 5G Adapter.

3.3 Network

3.3.1 WAN



WAN name button: check and modify WAN connection settings.
Details button: Display connection details.

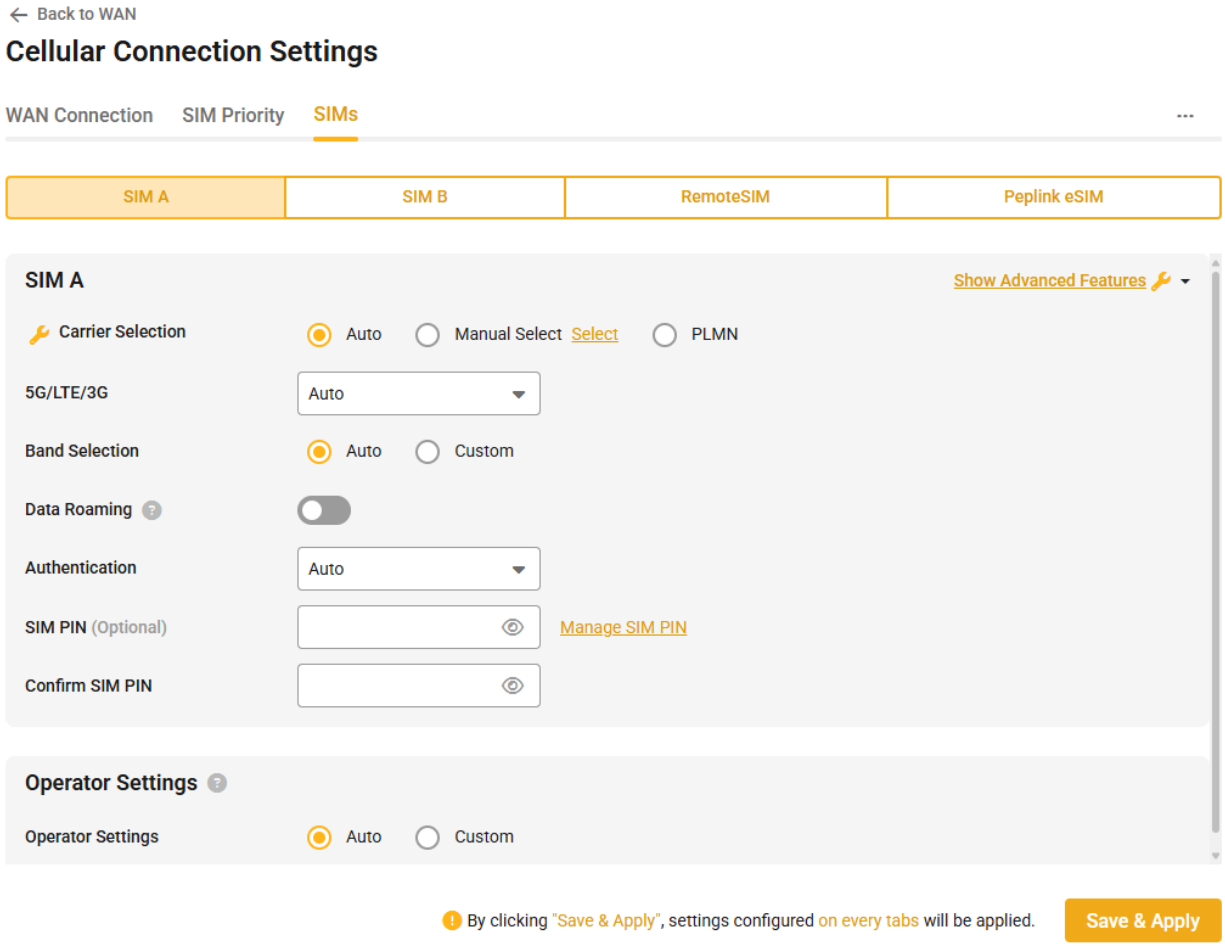


WAN Connection	
WAN Connection Name	Change the display name of the WAN connection.
Enable	To enable or disable the WAN interface.
Management IP address	This option allows you to configure the management IP address for the DHCP WAN connection.
DNS Server	Each ISP may provide a set of DNS servers for DNS lookups. This setting specifies the DNS (Domain Name System) servers to be used when a DNS lookup is routed through this connection. Selecting **Obtain DNS server address automatically** results in the DNS servers being assigned by the WAN DHCP server to be used for outbound DNS lookups over the connection. (The DNS servers are obtained along with the WAN IP address assigned from the DHCP server.) When **Use the following DNS server address(es)** is selected,

	you may enter custom DNS server addresses for this WAN connection into the **DNS Server 1** and **DNS Server 2** fields.
Standby State	This option allows you to choose whether to remain connected when this WAN connection is no longer in the highest priority and has entered the standby state. When Remain connected is chosen, upon bringing up this WAN connection to active, it will be immediately available for use. If this WAN connection is charged by connection time, you may want to set this option to Disconnect so that connection will be made only when needed.
Idle Disconnect	If this is checked, the connection will disconnect when idle after the configured Time value. This option is disabled by default.
Reply to ICMP Ping	If the checkbox is unticked, this option is disabled and the system will not reply to any ICMP ping echo requests to the WAN IP addresses of this WAN connection. **Default: ticked (Yes)**
Maximum Upload Bandwidth	This field refers to the maximum upload speed.
Maximum Download Bandwidth	This field refers to the maximum download speed.

SIM Priority	
Switch between SIM A & SIM B periodically	If “Alternate between SIM A and SIM B periodically” is selected, the SIM card will be switching according to the schedule time in the SIM Cards Alternate.
SIM Priority	Drag on the SIM by holding the left mouse button to adjust the SIM priority or disable it by moving it to the **Disabled** row.
Failback to Preferred SIM when	When “**Device is Idle**” has been selected, and when the device is using a lower priority SIM to connect, it will try to fail back and use the highest priority SIM to connect when the idle time out is reached.

	When “**Non top-prioritised SIM is connected for [X] minutes**” has been selected, the device will ignore idle time, and it fails back from a lower priority to the highest when the connection time reaches the period.
RemoteSIM Settings	You may need to enable the remote SIM Host settings in the Remote SIM management. Click on “Scan nearby remote SIM server” to show the serial number(s) of the connected SIM Injector(s).



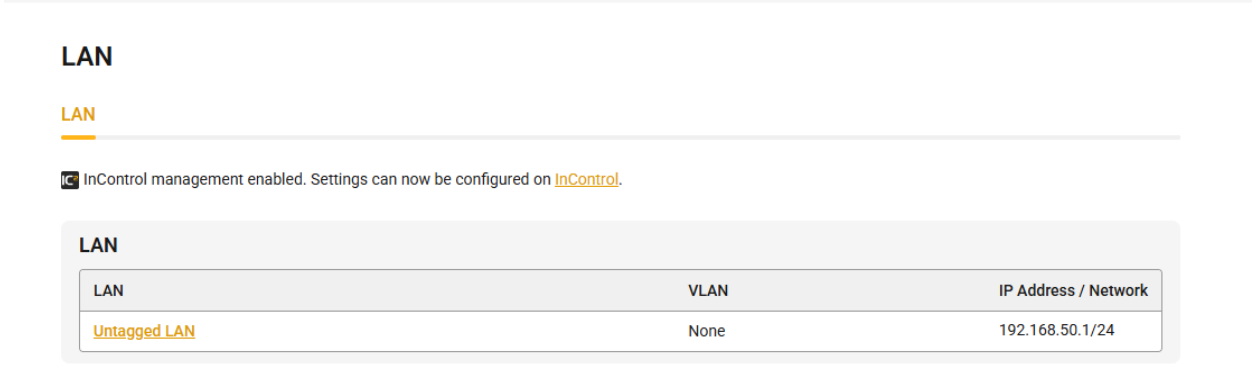
SIMs	
Carrier Selection	This menu allows restricting the network to a particular carrier.

	Tick “Show Advanced Features” to choose the manual selection or custom PLMN. The default is Auto.
5G/LTE/3G	This drop-down menu allows restricting cellular to a particular band.
Band Selection	When set to **Auto**, band selection allows for automatically connecting to available, supported bands (frequencies). When set to Manual, you can manually select the bands (frequencies) the SIM will connect to.
Data Roaming	This checkbox enables data roaming on this particular SIM card. When data roaming is enabled, this option allows you to select in which countries the SIM has a data connection. The option is configured by using MMC (Mobile Country Code). Please check your service provider’s data roaming policy before proceeding.
Authentication	Choose from PAP Only or CHAP Only to use those authentication methods exclusively. Select Auto to automatically choose an authentication method.
SIM PIN	This field is used to input the SIM PIN for a particular SIM card.
Confirm SIM PIN	Retype the SIM PIN to confirm the SIM PIN matches.
Operator Settings	This setting allows you to configure the APN settings of your connection. If **Auto** is selected, the mobile operator should be detected automatically. The connected device will be configured and connection will be made automatically. If there is any difficulty in making connections, you may select Custom to enter your carrier’s **APN**, **Login**, **Password**, and **Dial Number** settings manually. The correct values can be obtained from your carrier. The default and recommended setting is Auto.
APN / Login / Password	When Auto is selected, the information in these fields will be filled automatically. Select Custom to customize these parameters. The parameter values are determined by and can be obtained from the ISP.

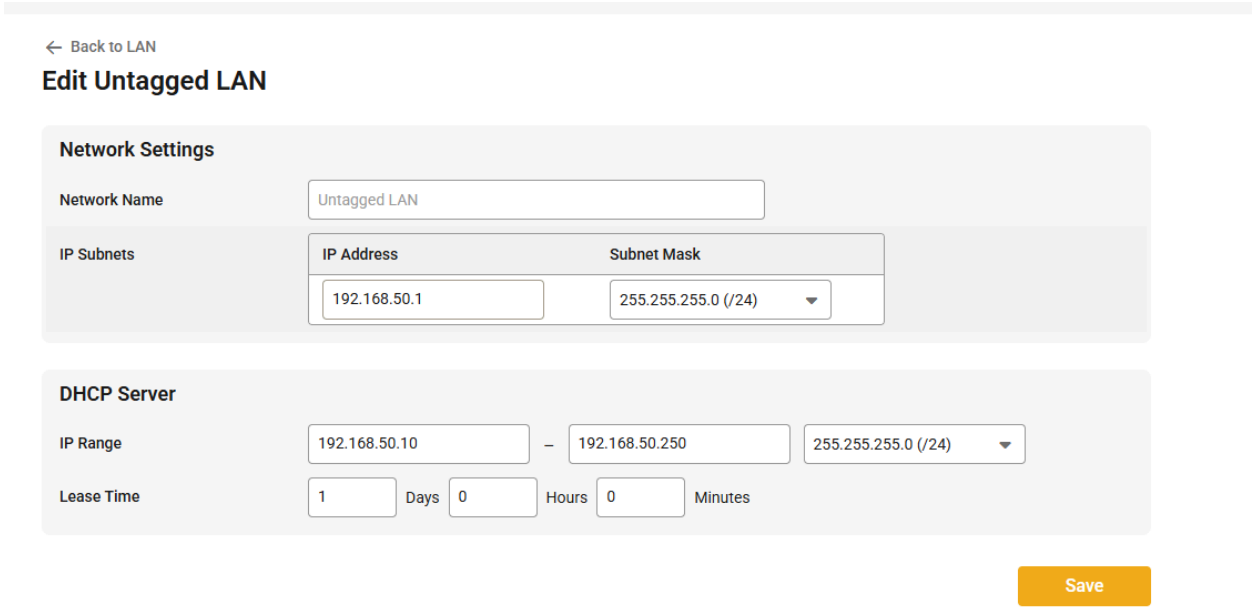
Operator Settings

IMSI	This is the International Mobile Subscriber Identity which uniquely identifies the SIM card.
ICCID	This is a unique number assigned to a SIM card used in a cellular device.

3.3.2 LAN



This page shows the LAN information. Click on the LAN name to check and configure the LAN settings.

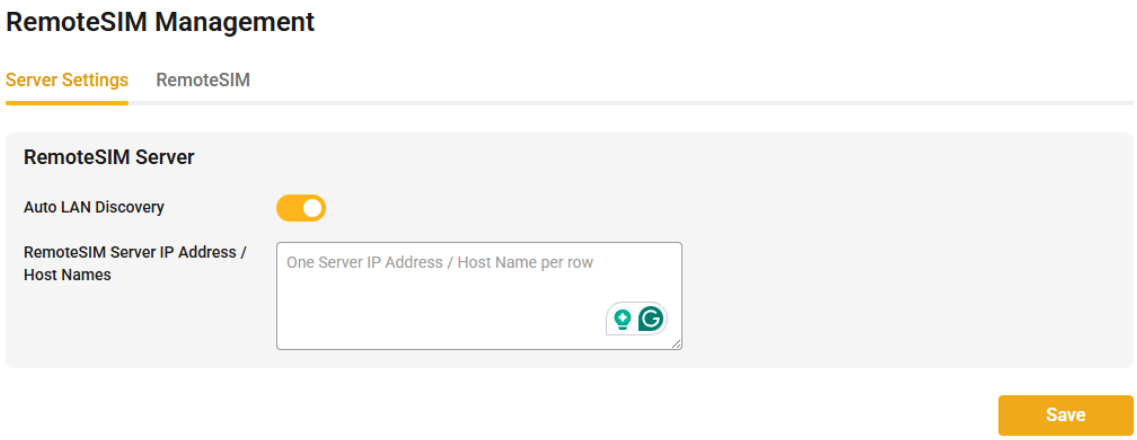


Network Settings	
Network Name	To configure the VLAN name. The default will be untagged LAN.
IP Subnets	To configure the device IP address and the subnet mask.
DHCP server	
IP Range	These settings allocate a range of IP addresses that will be assigned to LAN clients by the 5G Adapter's DHCP server.
Lease Time	This setting specifies the length of time throughout which an IP address of a DHCP client remains valid. Upon expiration of the **Lease Time**, the assigned IP address will no longer be valid, and the IP address assignment must be renewed.

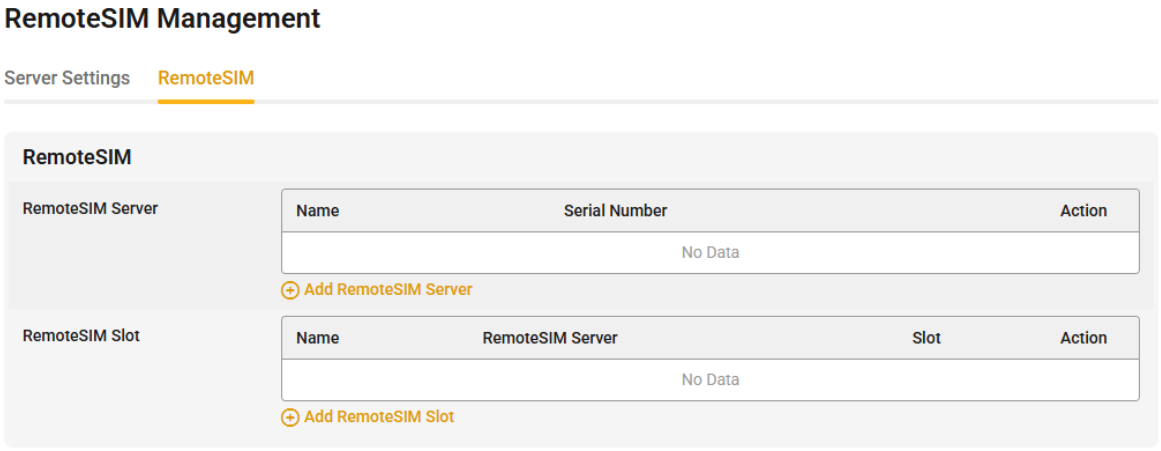
3.4 Advanced

RemoteSIM Management

The Remote SIM management is accessible via Advanced. By default, this feature is disabled.



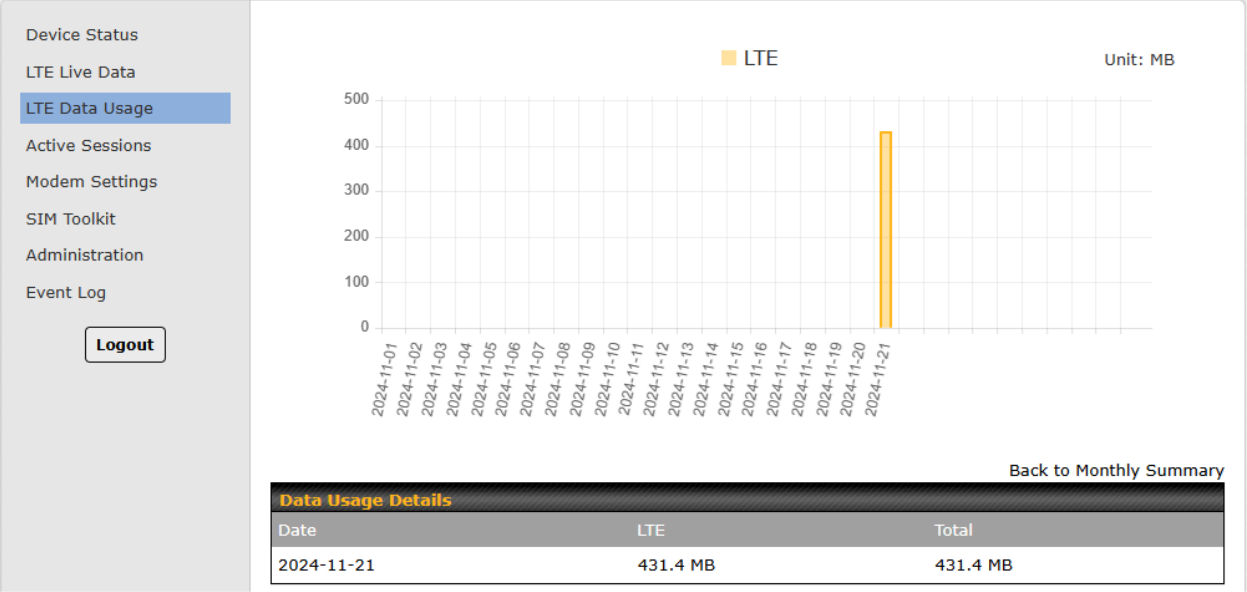
RemoteSIM Server	
Auto LAN Discovery	Check this box to enable Auto LAN discovery of the remote SIM server.
RemoteSIM Server IP Address / Host Names	Enter the public IP address of the SIM Injector. If you enter IP addresses here, it is not necessary to tick the “Auto LAN Discovery” box above.



RemoteSIM	
RemoteSIM Server	Click “Add RemoteSIM Server” to add and manage the remoteSIM server.
RemoteSIM Slot	Click “Add RemoteSIM Slot” to manage Cellular Connection Settings on each SIM from the remoteSIM server.

Data Usage Details

In this table, you can find additional details displaying the exact usage for the month. To view the daily usage report, you can click on **"Click here"** under **"View by Day"**.



3.5 System

Admin Security

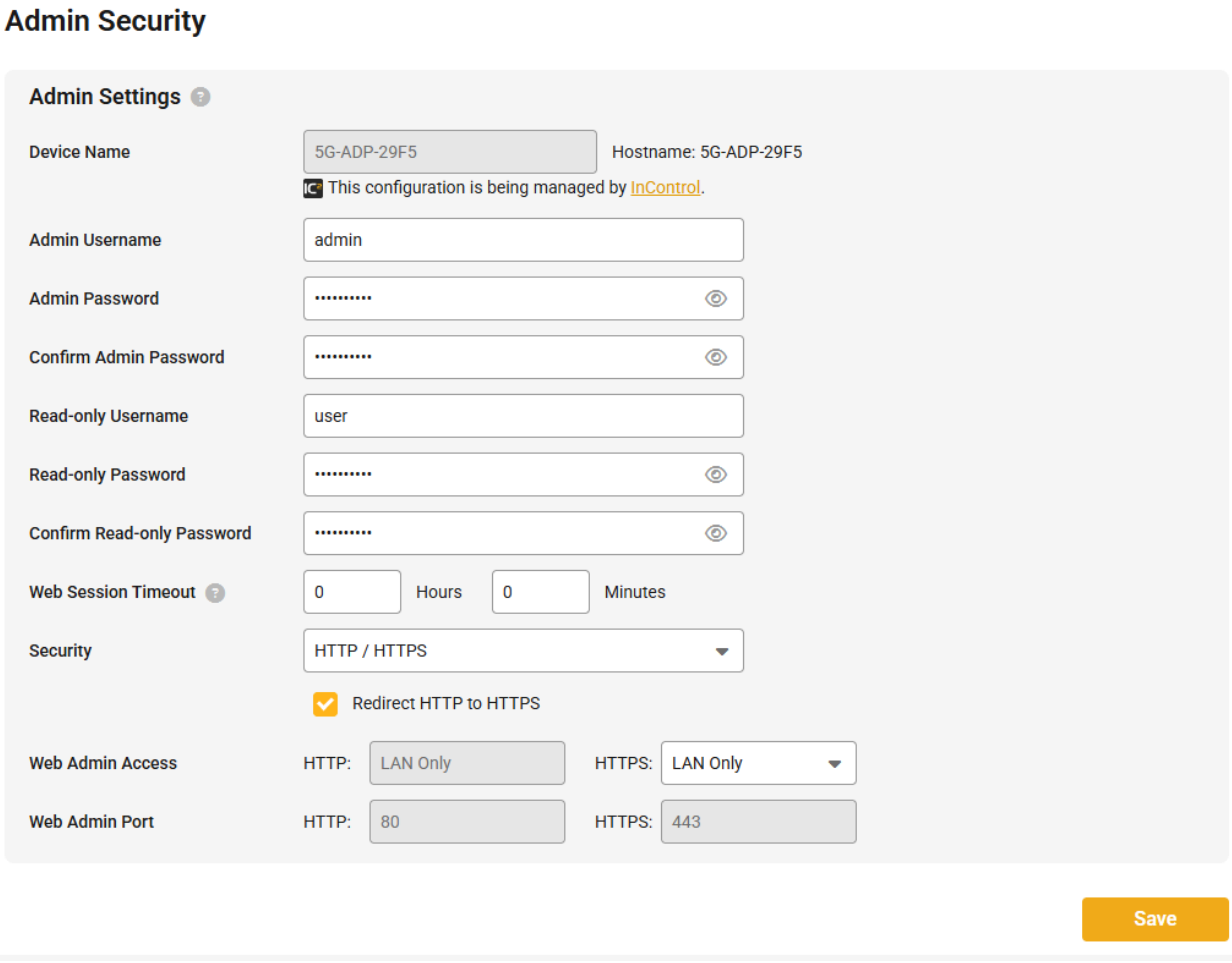
There are two types of user accounts available for accessing the web admin: admin and user. They represent two user levels: the admin level has full administrative access, while the user level is read-only. The user level can access only the device's status information; users cannot make any changes on the device.

A web login session will be logged out automatically when it has been idle longer than the **Web Session Timeout**. Before the session expires, you may click the **Logout** button in the web admin to exit the session.

0 hours 0 minutes signifies an unlimited session time. This setting should be used only in special situations, as it will lower the system security level if users do not log out before closing the browser. The **default** is 4 hours, 0 minutes.

For security reasons, after logging in to the web admin Interface for the first time, it is recommended to change the administrator password. Configuring the administration interface to

be accessible only from the LAN can further improve system security. Administrative settings configuration is located at **System>Admin Security**.



Admin Settings	
Device Name	This field allows you to define a name for this Pepwave device. By default, **Device Name** is set as **MAX_XXXX**, where XXXX refers to the last 4 digits of the unit's serial number.
Admin User Name	**Admin User Name** is set as admin by default, but can be changed, if desired.
Admin Password	This field allows you to specify a new administrator password.

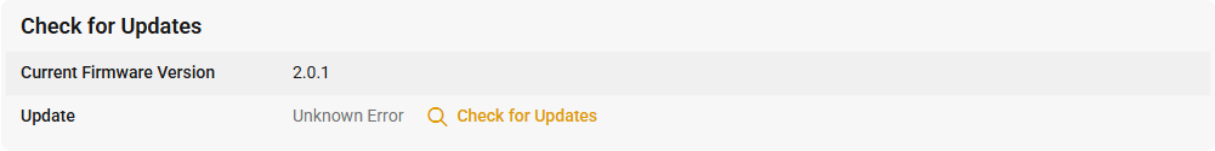
Confirm Admin Password	This field allows you to verify and confirm the new administrator password.
Read-only Username	**Read-only User Name** is set as user by default, but can be changed, if desired.
Read-only Password	This field allows you to specify a new user password. Once the user password is set, the read-only user feature will be enabled.
Confirm Read-only Password	This field allows you to verify and confirm the new user password.
Web Session Timeout	This field specifies the number of hours and minutes that a web session can remain idle before the 5G Adapter terminates its access to the web admin interface. By default, it is set to **4 hours**.
Security	This option is for specifying the protocol(s) through which the web admin interface can be accessed: ● HTTP ● HTTPS ● HTTP/HTTPS HTTP to HTTPS redirection is enabled by default to force HTTPS access to the web admin interface.
Web Admin Access	This option is for specifying the network interfaces through which the web admin interface can be accessed: ● LAN only ● LAN/WAN
Web Admin Port	This field is for specifying the port number on which the web admin interface can be accessed. ● HTTP: 80 ● HTTPS: 443 *Can be changed when “Redirect HTTP to HTTPS” has been disabled.

Firmware

Web admin interface: automatically check for updates

Upgrading firmware can be done in one of three ways.
Using the device's interface to automatically check for an update, using the device's interface to manually upgrade the firmware, or using InControl2 to push an upgrade to a device.

The automatic upgrade can be done from **System > Firmware**.



If an update is found, the buttons will change to allow you to "**Download and Update"** the firmware.

Web admin interface: install updates manually

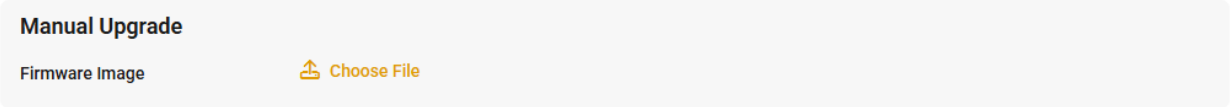
In some cases, a special build may be provided via a ticket or it may be found in the forum. Upgrading to the special build can be done using this method, or using IC2 if you are using that to manage your firmware upgrades. A manual upgrade using the GA firmware posted on the site may also be recommended or required for a couple of reasons.

All of the Peplink/Pepwave GA firmware can be found here. Navigate to the relevant product line. Some product lines may have a dropdown that lists all of the products in that product line.

If the device has more than one firmware version the current hardware revision will be required to know what firmware to download.

Navigate to System > Firmware and click the Choose File button under the Manual Firmware Upgrade section. Navigate to the location that the firmware was downloaded to select the ".img" file and click the Open button.

Click on the Manual Upgrade button to start the upgrade process.



A prompt will be displayed advising to download the Current Active Configuration. Please click on the underlined download text. After downloading the current config click the Ok button to start the upgrade process. The firmware will now be applied to the device*. The amount of time it takes for the firmware to upgrade will depend on the device that's being upgraded.

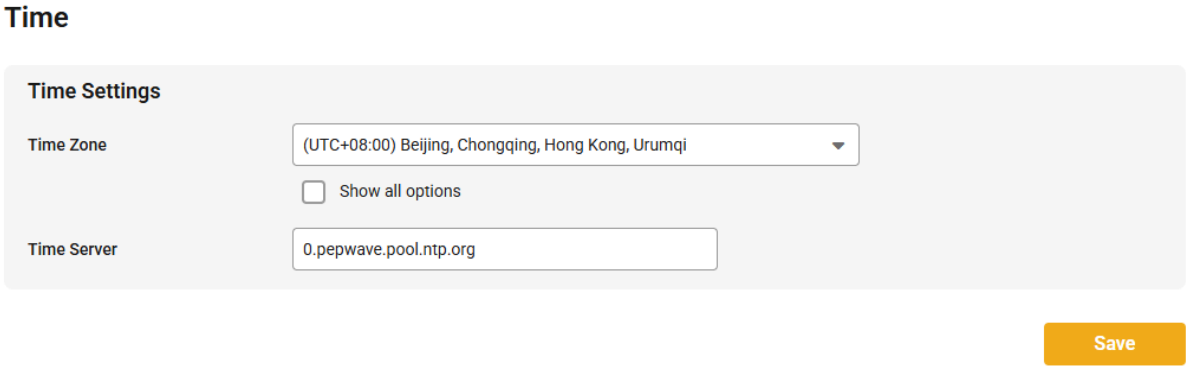
**Upgrading the firmware will cause the device to reboot.*

The InControl method

Described in this knowledge base article on our forum.

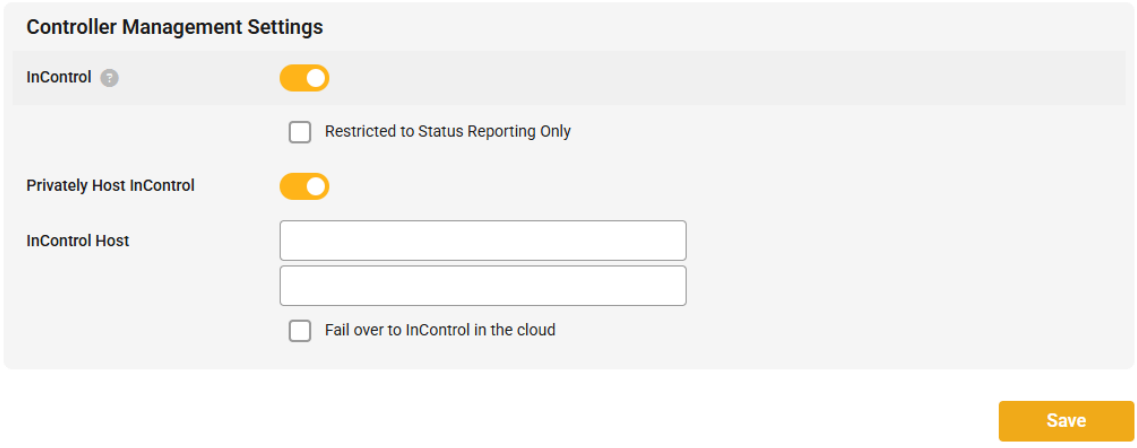
Time

Time Settings enables the system clock of the 5G Adapter to be synchronized with a specified time server. Time settings are located at **System>Time**.



Time Settings	
Time Zone	This specifies the time zone (along with the corresponding Daylight Savings Time scheme). The **Time Zone** value affects the time stamps in the device's event log and e-mail notifications. Check **Show all** to show all time zone options.
Time Server	This setting specifies the NTP network time server to be utilized by the device.

InControl



InControl is a cloud-based service which allows you to manage all of your Peplink and Pepwave devices with one unified system. With it, you can generate reports, gather statistics, and configure your devices automatically. All of this is now possible with InControl.

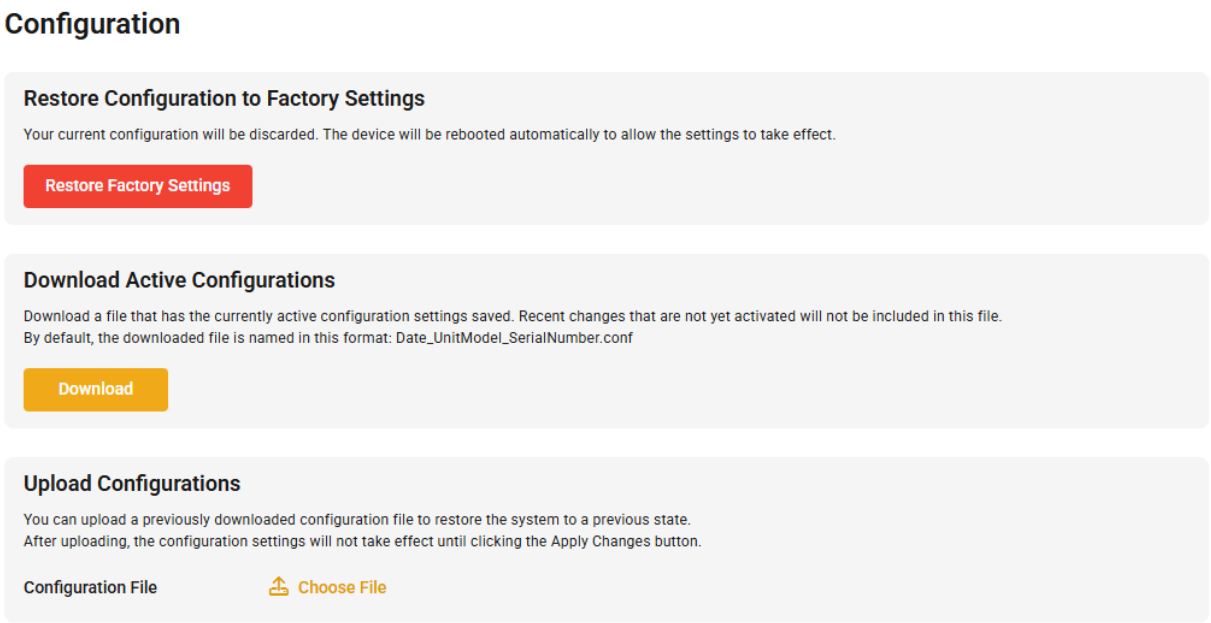
When this check box is checked, the device's status information will be sent to the InControl system. This device's usage data and configuration will be sent to the system if you enable the features in the system.

Alternatively, you can also privately host InControl. Simply check the "Privately Host InControl" box and enter the IP Address of your InControl Host. If you have multiple hosts, you may enter the primary and backup IP addresses for the InControl Host and tick the "Fail over to InControl in the cloud" box. The device will connect to either the primary InControl Host or the secondary/backup ICvA or IC2.

You can sign up for an InControl account at https://incontrol2.pepwave.com/. You can register your devices under the account, monitor their status, see their usage reports, and receive offline notifications.

Configuration

Backing up the 5G Adapter settings immediately after successful completion of initial setup is strongly recommended. The functionality to download and upload the 5G Adapter settings is found at **System>Configuration**.

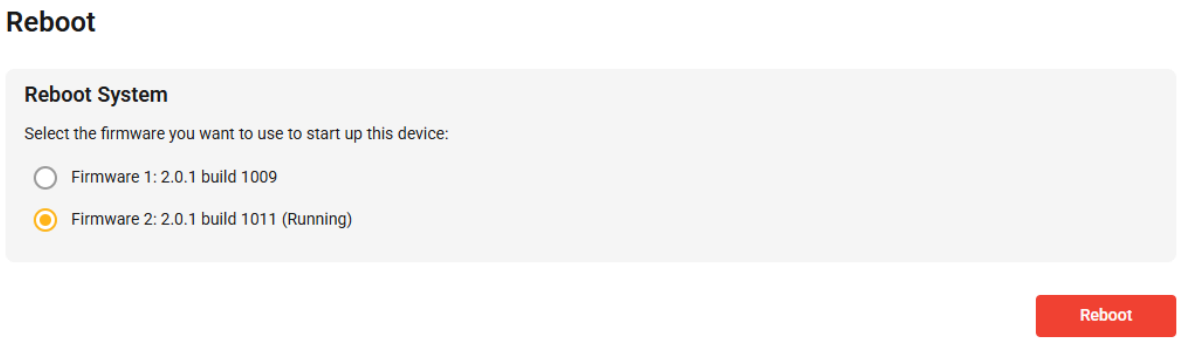


Configuration	
Restore Configuration to Factory Settings	Your current configuration will be discarded. The device will be rebooted automatically to allow the settings to take effect.
Download Active Configurations	Download a file that has the currently active configuration settings saved. Recent changes that are not yet activated will not be included in this file. By default, the downloaded file is named in this format: Date_UnitModel_SerialNumber.conf
Upload Configurations	You can upload a previously downloaded configuration file to restore the system to a previous state. After uploading, the configuration settings will not take effect until clicking the **Apply Changes** button.

Reboot

This page provides a reboot button for restarting the system. For maximum reliability, the 5G Adapter can be equipped with two copies of firmware. Each copy can be a different version. You can select the firmware version you would like to reboot the device with. The firmware marked with **(Running)** is the current system boot up firmware.

Please note that a firmware upgrade will always replace the inactive firmware partition.

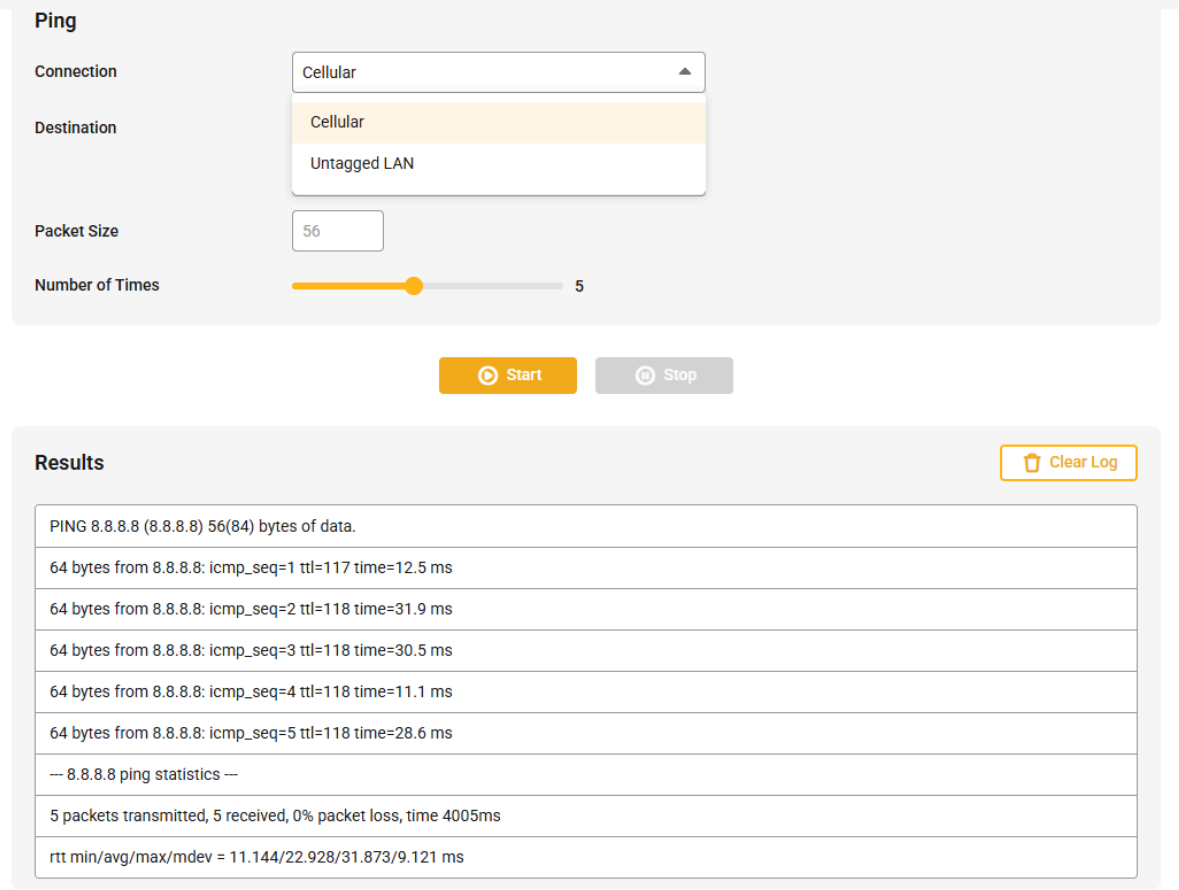


Tools

Ping

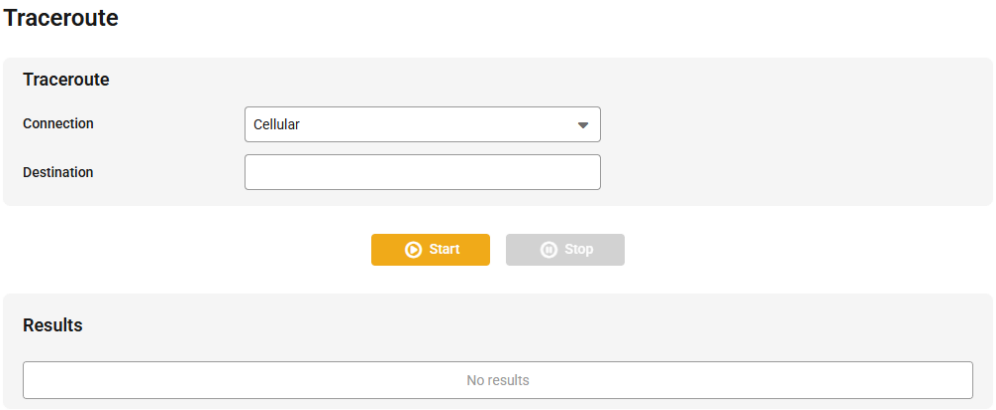
The ping test tool sends pings through the LAN interface or the Cellular connection. You can specify the number of pings in the field **Number of times**, to a maximum of 10 times. **Packet**

Size can be set to a maximum of 1472 bytes. The ping utility is located at **System>Tools>Ping**, illustrated below:



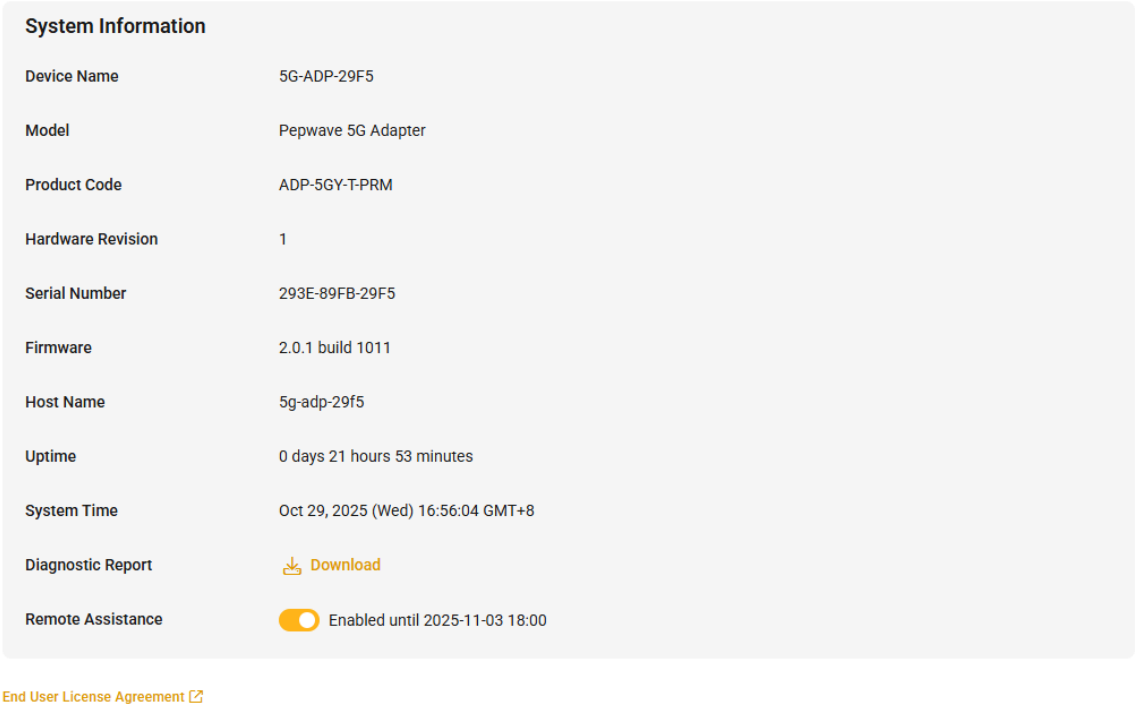
Traceroute

The traceroute test tool traces the routing path to the destination through the LAN interface or the Cellular connection. The traceroute test utility is located at System>Tools>Traceroute.



3.6 Status

Device

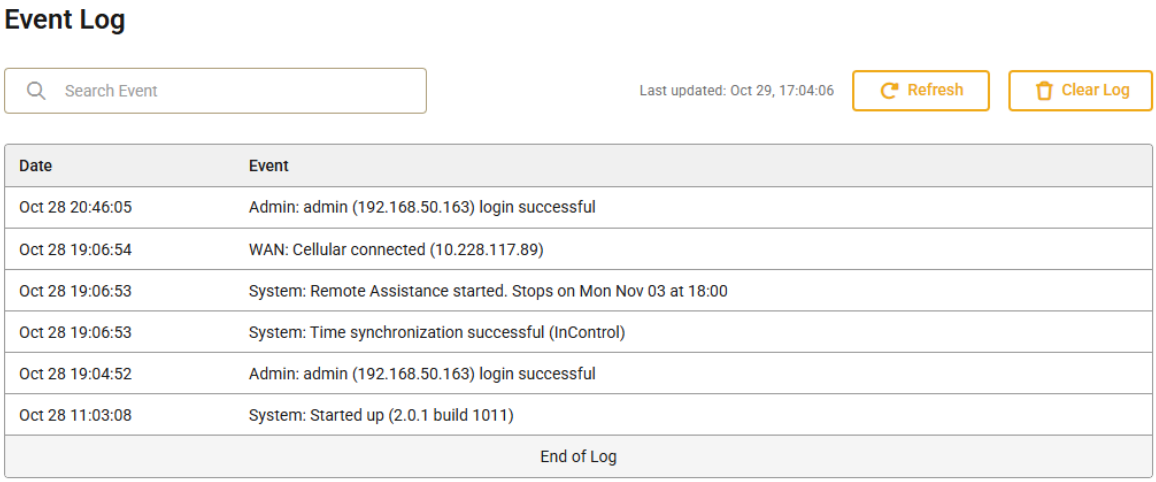


System Information	
Device Name	This is the name specified in the Device Name field located at **Modem Settings > Admin Settings**.
Model	This shows the model name and number of this device.
Product Code	If your model uses a product code, it will appear here.
Hardware Revision	This shows the hardware version of this device.
Serial Number	This shows the serial number of this device.
Firmware	This shows the firmware version this device is currently running.
Host Name	The host name assigned to the 5G Adapter appears here.
Uptime	This shows the length of time since the device has been

	rebooted.
System Time	This shows the current system time.
Diagnostic Report	The **Download** link is for exporting a diagnostic report file required for system investigation.
Remote Assistance	This option is to **turn on** remote assistance with the time duration.

* Click End User License Agreement to view the License Agreement.

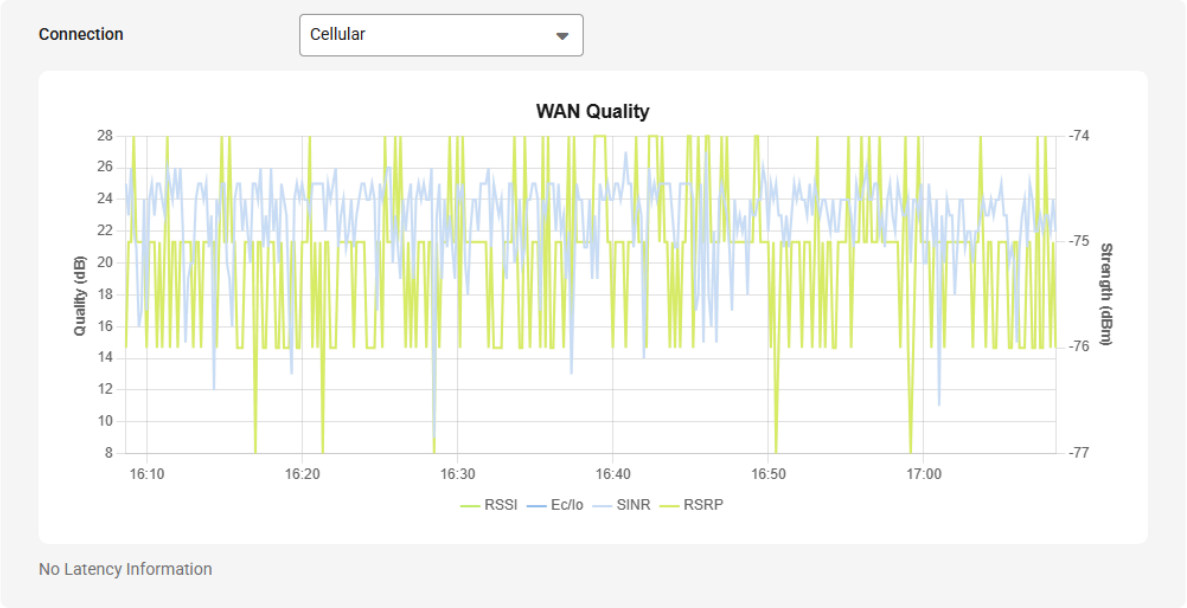
Event Log



The log section displays a list of events that have taken place on the 5G Adapter. By inputting the keyword in the “Search box”, you may filter the event logs. Click the “Refresh” to refresh log entries automatically. Click the “Clear Log” button to clear the log.

WAN Quality

WAN Quality



The **Status > WAN Quality** allows for showing detailed information about the connected Cellular WAN connection.

For cellular connections, it shows signal strength, quality, throughput, and latency for the past hour.