MAX Adapter User Manual

September 2025

Table of Contents

1. Introduction

1.1 Packing List

Package Content for MAX-ADP-LTE-US-T-PRM:

- 1x MAX Adapter
- 2x LTE Antennas
- 1x 12V 2A 4-Pin Power Supply (ACW-632)

Package Content for MAX-ADP-LTE-US-DC-T-PRM:

- 1x MAX Adapter
- 2x LTE Antennas
- 1x 10ft DC Power Cable (ACW-634)

1.2 Default Login Credentials

Login address: https://192.168.50.1 (via USB-C interface)
Username: admin
Password: admin

1.3 Power Options

The MAX adapter supports dual power options:

- Power Port (4-pin Micro-Fit connector)
- USB-C^

Both power options can be connected simultaneously. The primary power supply is the Power Port. In the event of a Power Port failure, the device will seamlessly transition to the USB-C power source. USB-C can be connected to a battery or a mini UPS to handle power loss events.

^The MAX Adapter does not support power bank charging via USB-C connector.

2. MAX 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

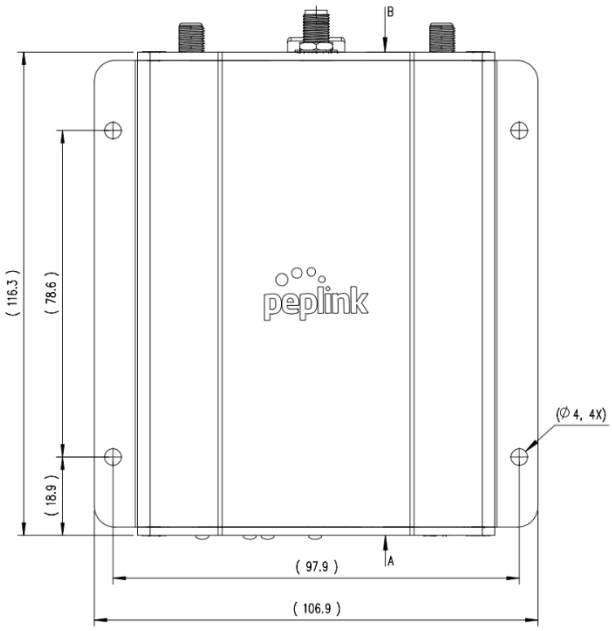
Cellular Indicators		
Cellular	OFF	No Power or no SIM card inserted
	Blinking Green	Connecting to network(s)
	Steady Green	Connected to network(s)

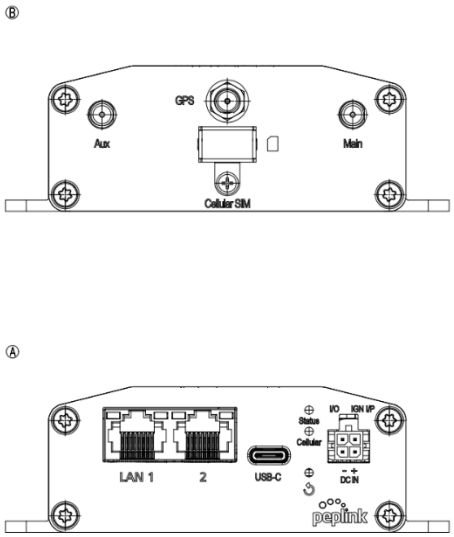
3. MAX Adapter Setup

Step 1: Locate and Mount the MAX Adapter

- Choose a safe and secure location that also provides sufficient room for the installation of cellular antennas and running of cables.
- Place the MAX Adapter antennas ideally away from large metal objects that may obstruct the signal.
- Securely mount the unit after identifying the location. The MAX Adapter can be fixed to a surface by fastening up to 4 screws through the holes on its integrated flange mount.^

^Please refer to the technical drawing below for the hole position details and other related dimensions.





Step 2: Antenna Installation^

- Attach the 2x LTE antennas to the MAX Adapter.
- Place the antennas perpendicular to the ground, pointing straight up.

^If required, install Peplink's Mobility Antennas with an extension cable and position antenna to get a better signal strength.

Step 3: Physical SIM Installation

- Untighten the screw of the SIM cover.
- Insert the physical SIM into the slot.

Step 4: Establish a LAN Connection

- To connect your end device to the MAX Adapter, you will need a cable with an RJ45 connector from both ends to connect both devices.
- Plug the RJ45 connector into the LAN port on the MAX Adapter. This will allow the MAX Adapter to assign an IP address to the end device and establish a connection.
- Alternatively, you can connect to the USB-C LAN interface as well.

Step 5: Power Connection

- The MAX Adapter can be powered up with a single source of a 4-pin Micro-Fit connector or a USB-C (5V@1A) power supply.
- In case of an unforeseen power outage, a dual power setup is recommended for redundancy.

Step 6: **Configure the MAX Adapter**

- Check section 4 of “Access to MAX Adapter Configuration UI” for the detailed methods to access the configuration page.
- Modem settings can be configured in the Web-Admin interface as required.

Step 7: Check the LEDs Indication^

- Once the device is booted up, the "Status" light will turn steady green.
- Once the device is connected to the network, the "Cellular" light will turn steady green.
- When all three green lights are steadily on, the device will now be ready for use.

^Please refer to the section 2.1 of this user manual for detailed information on LED behaviors.

4. Access to MAX Adapter Configuration UI

4.1 Local Access

Step 1: Connect the MAX Adapter to a device accessible to the WEB configuration UI via the USB-C interface.^

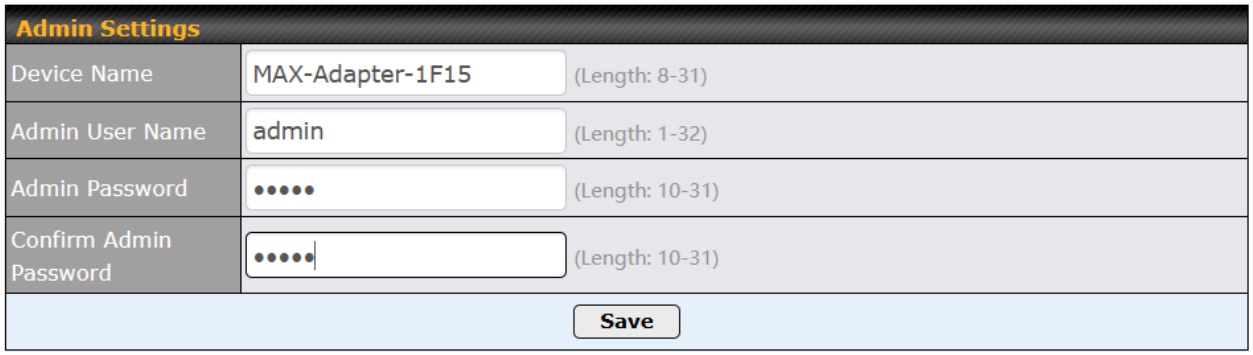
^The MAX Adapter utilizes the Remote Network Driver Interface Specification (RNDIS) to establish a connection with the WEB-based user interface. The RNDIS driver creates a virtual Ethernet link on your computer. Ensure that the RNDIS driver is installed on your computer. Please note that the RNDIS driver is available for Windows OS and Linux OS only. MacOS is not supported.

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

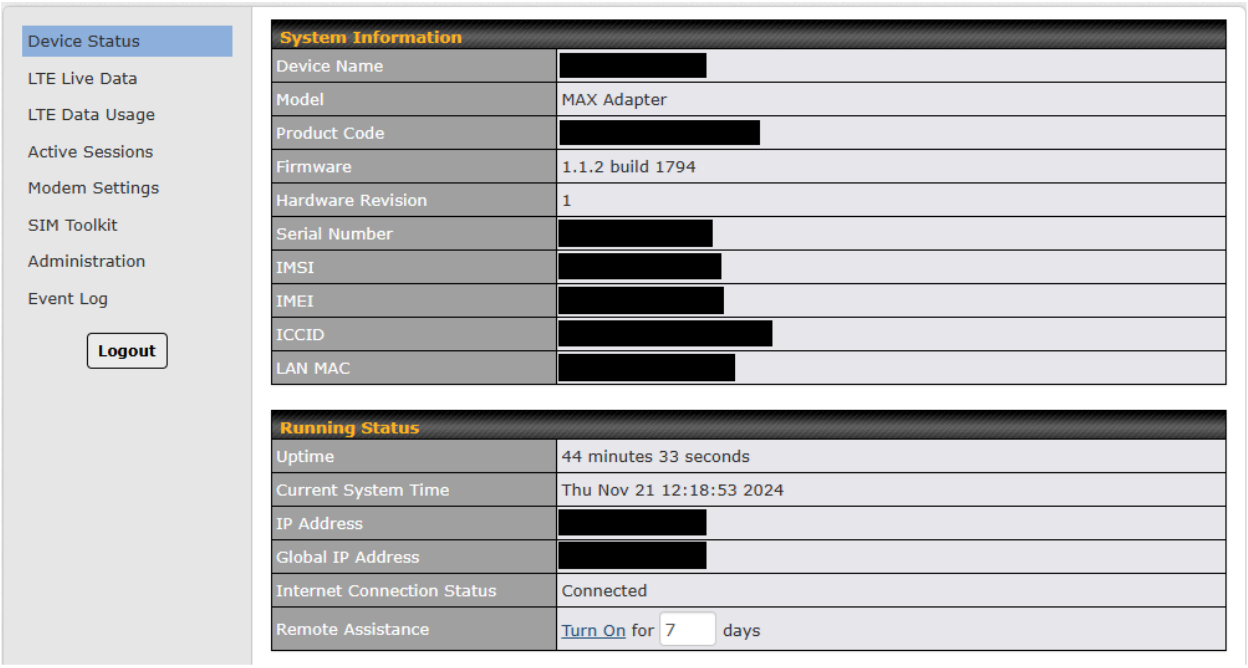
^Please note the default IP address could be occupied by the upstream router of the computer. If this is the case, you could change the gateway IP address of the upstream router or use Method 2 to access the configuration UI.

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

Step 4: Follow the guide and change the login password.
To change the password for the device, log in to the device > select “Modem Settings” > scroll down to “Admin Settings”. Insert the “Admin Password” and “Confirm Admin Password” and click “Save”.



4.2 Device Status

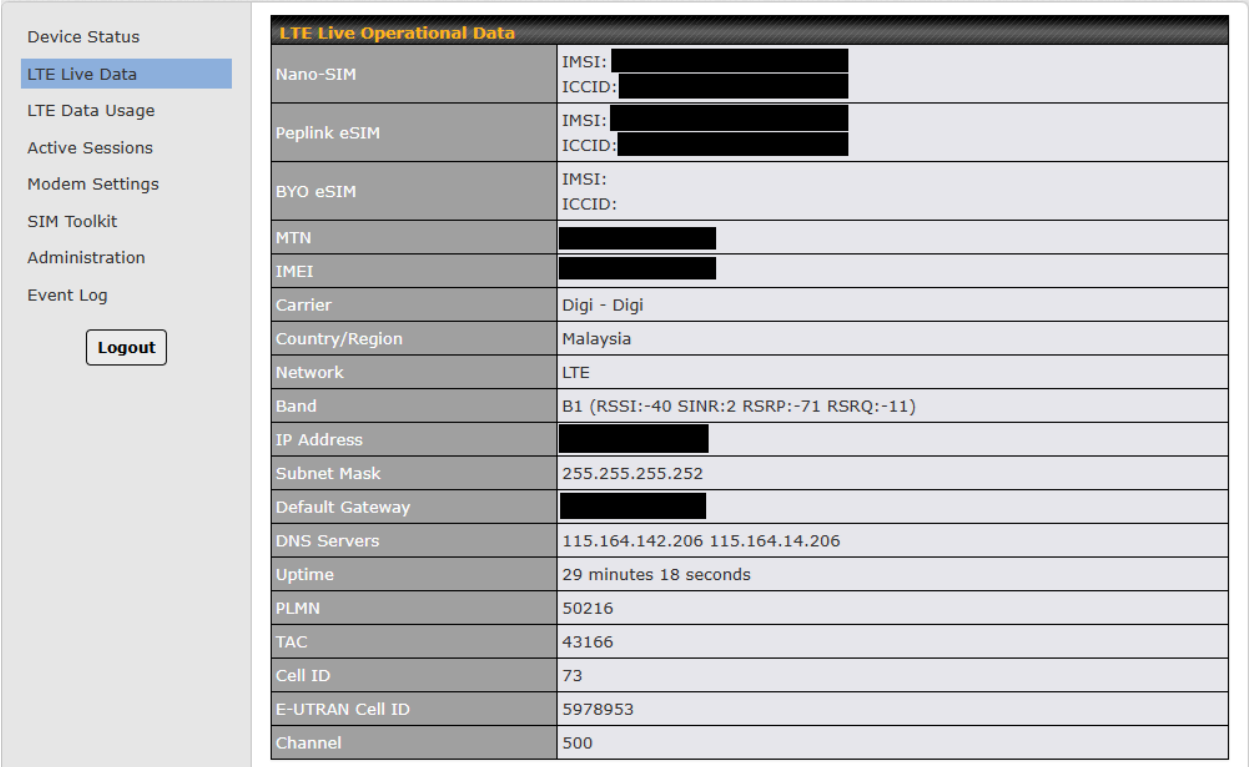


System Information

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.
Firmware	This shows the firmware version this device is currently running.
Hardware Revision	This shows the hardware version of this device.
Serial Number	This shows the serial number of this device.
IMSI	This is the International Mobile Subscriber Identity which uniquely identifies the SIM card.
IMEI	This is the unique ID for identifying the modem in GSM/HSPA mode.
ICCID	This is a unique number assigned to a SIM card used in a cellular device.
LAN MAC	The MAC address of the device LAN.

Running Status	
Uptime	This shows the length of time since the device has been rebooted.
Current System Time	This shows the current system time.
IP Address	IPv4 address assigned by ISP.
Global IP Address	IPv6 address assigned by ISP.
Internet Connection Status	Device connection status (Connected or Disconnected).
Remote Assistance	This option is to turn on remote assistance with the time duration.

4.3 LTE Live Data



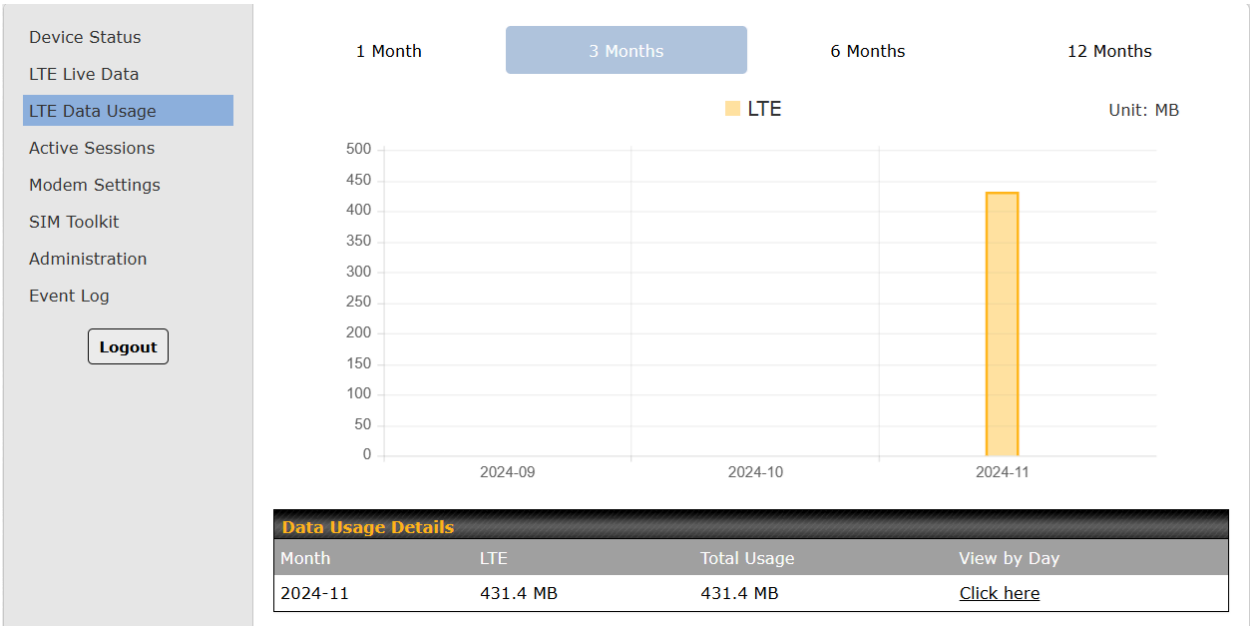
LTE Live Operational Data	
IMSI	This is the International Mobile Subscriber Identity which uniquely identifies the SIM card.
ICCID	This is a unique number assigned to a SIM card used in a cellular device.
MTN	This field is to display the mobile telephone number of the SIM card.
IMEI	This is the unique ID for identifying the modem in GSM/HSPA mode.
Carrier	The service provider of the SIM card.
Country/Region	The country of the service provider.
Network	Type of cellular network connected.

Band	Connected bands (frequencies).
IP Address	IP address assigned by ISP.
Subnet Mask	Subnet Mask of the assigned IP address.
Default Gateway	Access point between this network with ISP.
DNS Servers	IP address of DNS server connected.
Uptime	The amount of time the device connected to ISP.
PLMN	Unique identification of PLMN.
TAC	Type Allocation Code.
Cell ID	Generally unique number used to identify each base transceiver station (BTS) .
E-UTRAN Cell ID	Unique identifier assigned to each cell within the network.
Channel	Channel ID to communicate with the base station.

4.4 LTE Data Usage

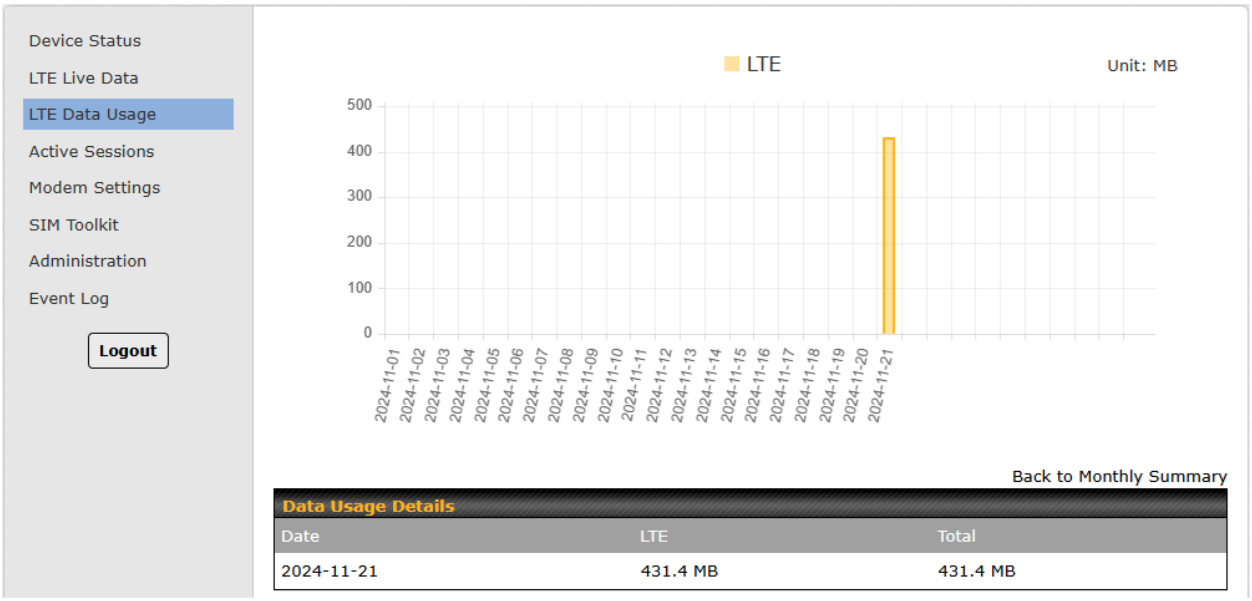
LTE Data Usage

On this page, you can view the usage of the device. The specified time frame above allows you to generate a report for the selected period.



Data Usage Details

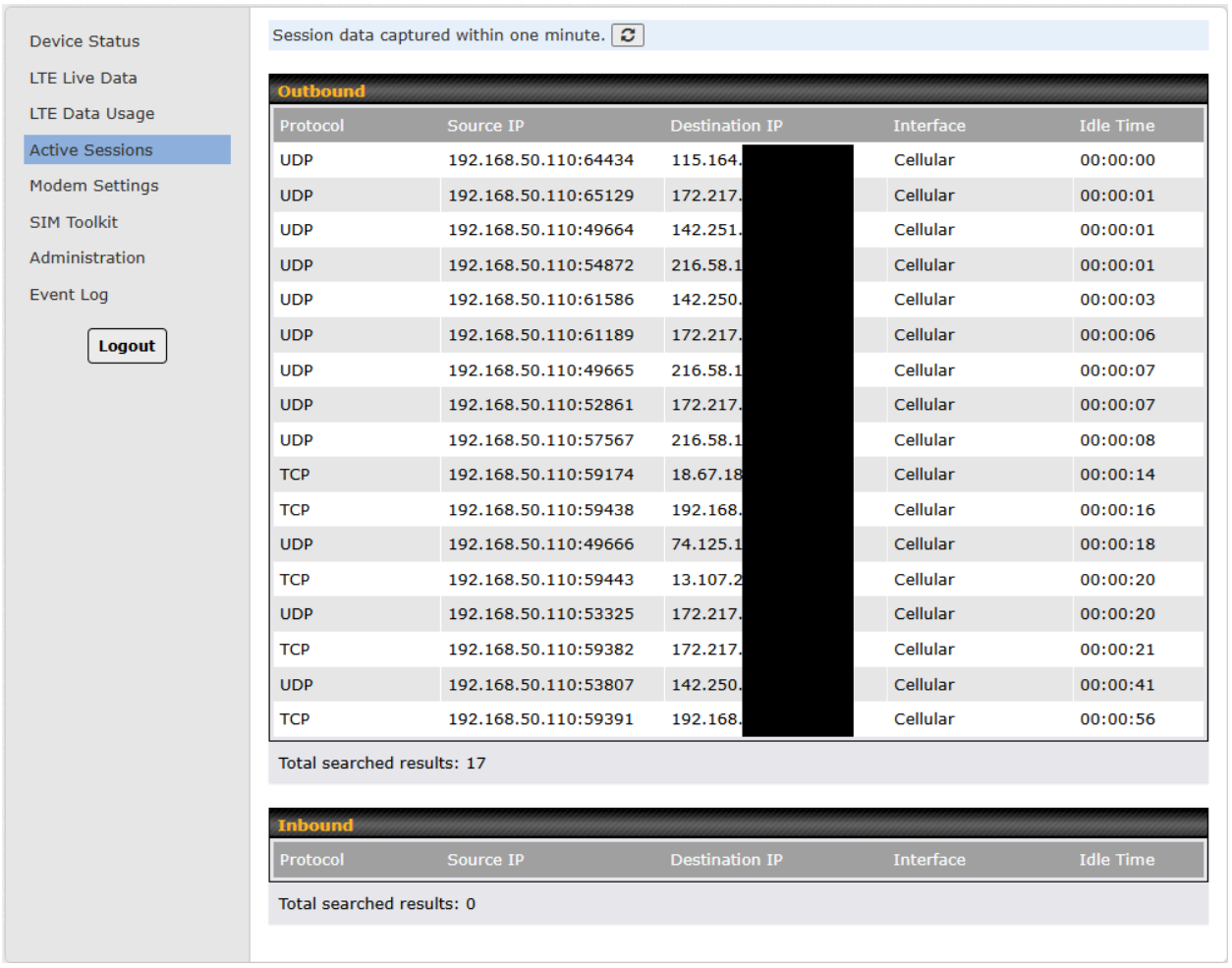
In this table, you can find additional details displaying the exact usage for the month. To view the daily usage report, you can click on **“Click here”** under **“View by Day”**.



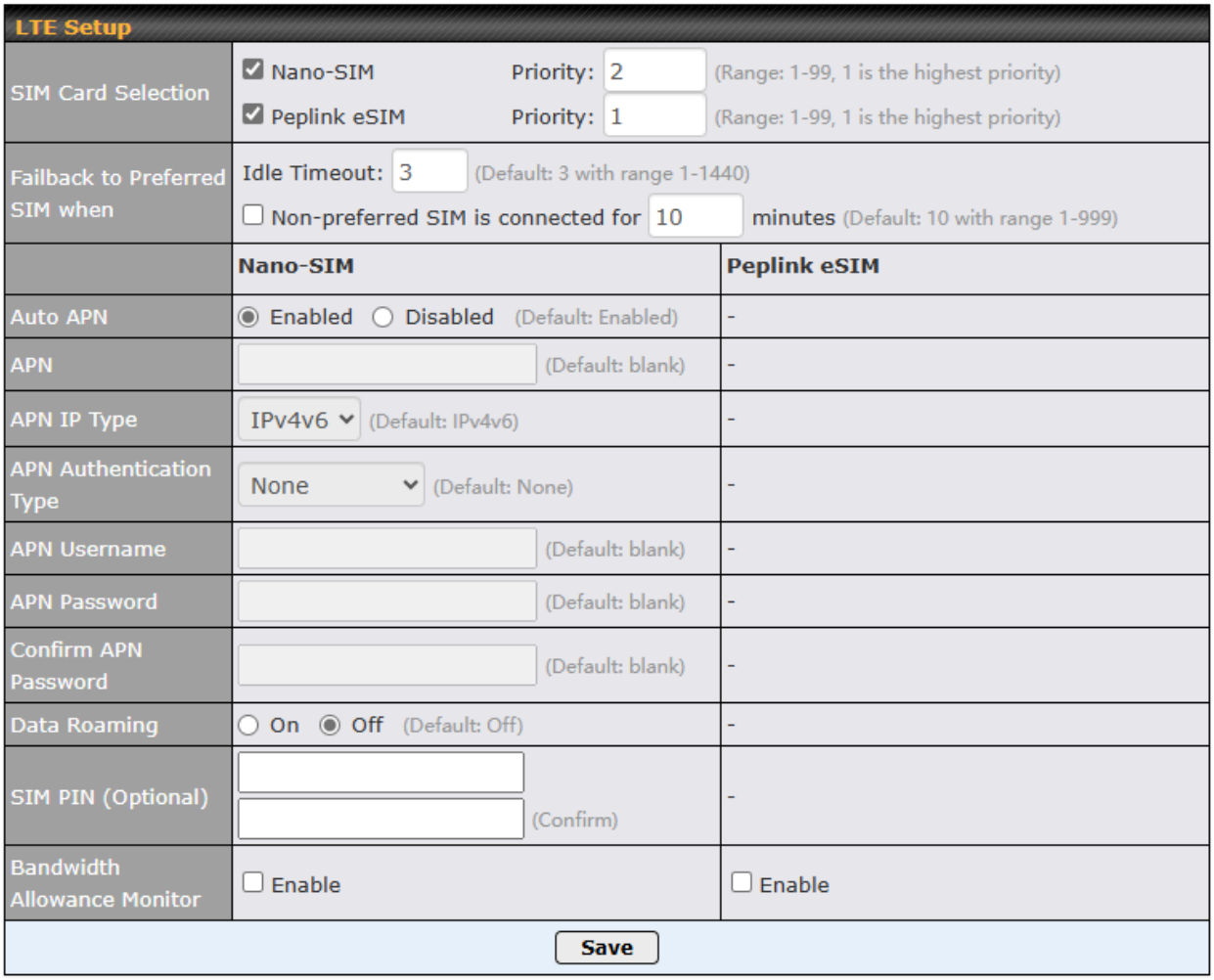
4.5 Active Sessions

Active Sessions

On this page, you can view all the active outbound and inbound sessions established by the MAX Adaptor.

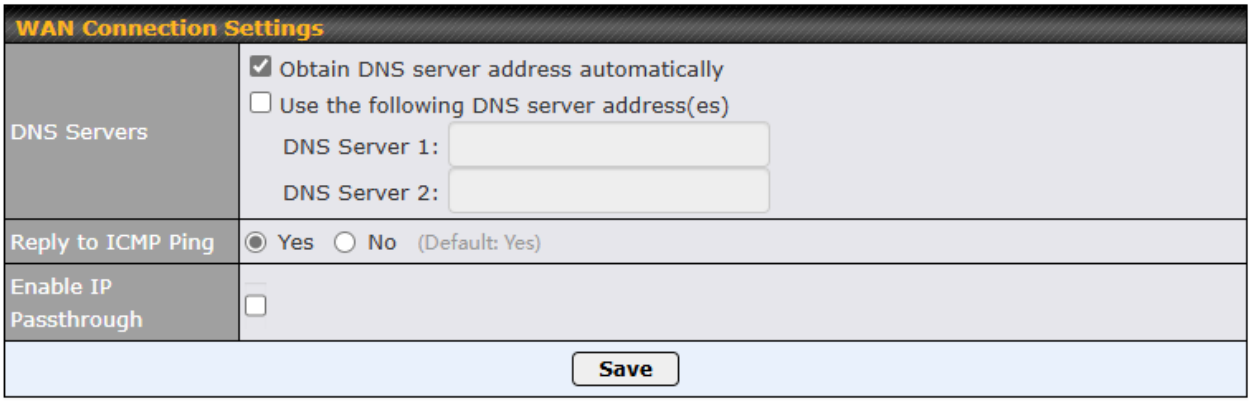

Device Status
LTE Live Data
LTE Data Usage
Active Sessions
Modem Settings
SIM Toolkit
Administration
Event Log
Logout
Session data captured within one minute.
Outbound
Protocol Source IP Destination IP Interface Idle Time
UDP 192.168.50.110:64434 115.164. Cellular 00:00:00
UDP 192.168.50.110:65129 172.217. Cellular 00:00:01
UDP 192.168.50.110:49664 142.251. Cellular 00:00:01
UDP 192.168.50.110:54872 216.58.1 Cellular 00:00:01
UDP 192.168.50.110:61586 142.250. Cellular 00:00:03
UDP 192.168.50.110:61189 172.217. Cellular 00:00:06
UDP 192.168.50.110:49665 216.58.1 Cellular 00:00:07
UDP 192.168.50.110:52861 172.217. Cellular 00:00:07
UDP 192.168.50.110:57567 216.58.1 Cellular 00:00:08
TCP 192.168.50.110:59174 18.67.18 Cellular 00:00:14
TCP 192.168.50.110:59438 192.168. Cellular 00:00:16
UDP 192.168.50.110:49666 74.125.1 Cellular 00:00:18
TCP 192.168.50.110:59443 13.107.2 Cellular 00:00:20
UDP 192.168.50.110:53325 172.217. Cellular 00:00:20
TCP 192.168.50.110:59382 172.217. Cellular 00:00:21
UDP 192.168.50.110:53807 142.250. Cellular 00:00:41
TCP 192.168.50.110:59391 192.168. Cellular 00:00:56
Total searched results: 17
Inbound
Protocol Source IP Destination IP Interface Idle Time
Total searched results: 0

4.6 Modem Settings

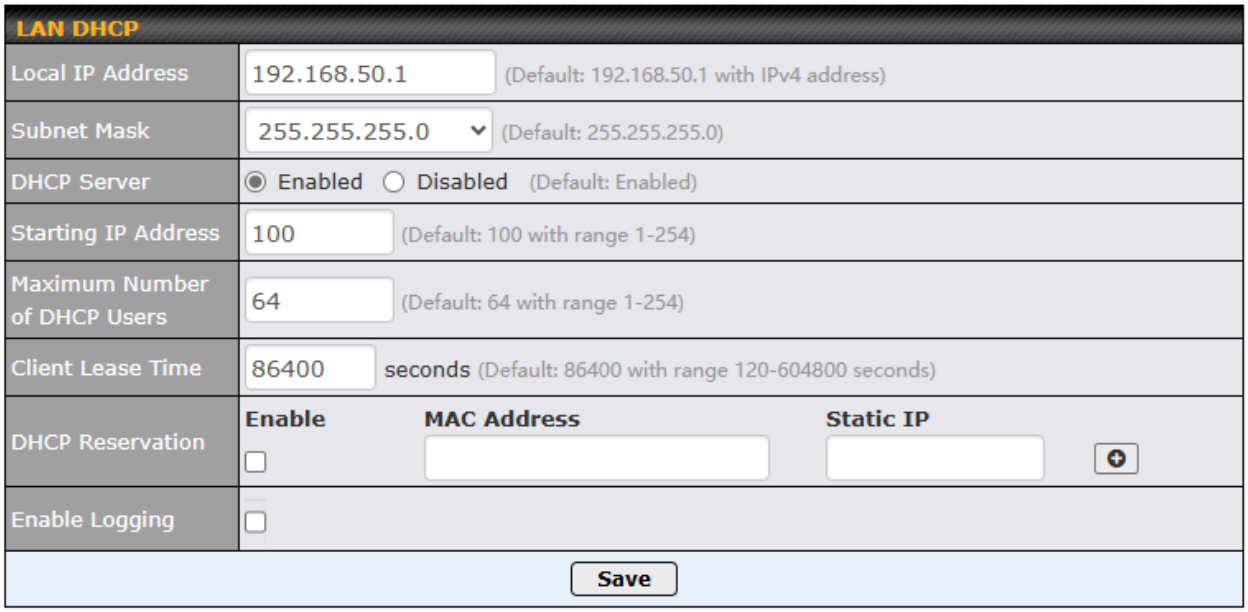


LTE Setup	
SIM Card Selection	This setting allows you to select which type of SIM Card you want to enable. You can also set their Priority, 1 is the highest.
Fallback to Preferred SIM when	This option is allowing to switch to another SIM cards when the Cellular WAN reaches faillback timeout.
Auto APN	This setting enables you to configure the APN (Access Point Name) settings for your connection. When Auto is **Enabled**,

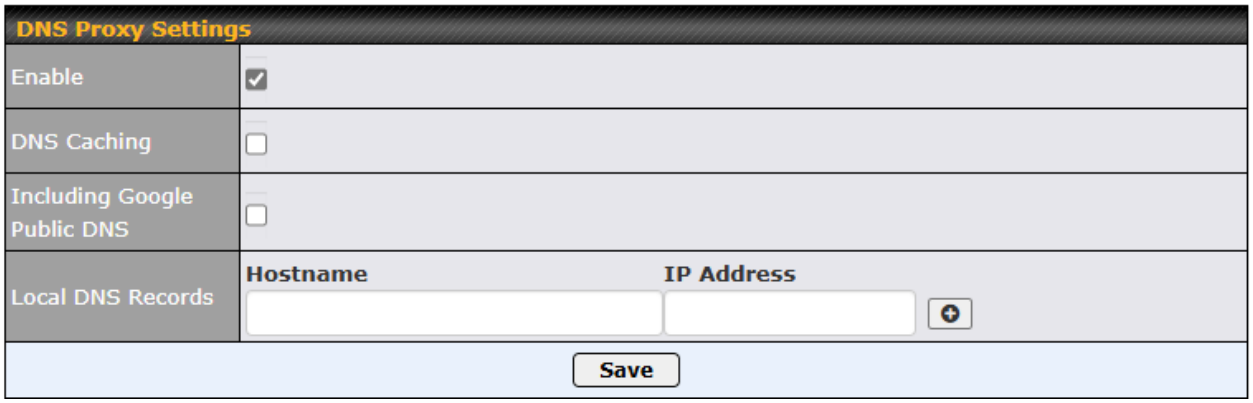
	the APN settings should be automatically detected. If you encounter any difficulties in establishing the connection, you can choose **Disabled** to manually enter your carrier's APN, Login, Password, and Dial Number settings.
APN / Username / Password/SIM PIN	When Auto APN is **Enabled**, the information in these fields will be filled automatically. Disabled Auto APN to customize these parameters. The parameter values are determined by and can be obtained from the ISP.
APN IP Type	This setting enables the selection of the PDP type. ● IPv4 ● IPv6 ● IPv4v6 (Dual stack)
APN Authentication Type	Choose from **PAP Only** or **CHAP Only** or **PAP/CHAP** those authentication methods exclusively.
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 (country) codes. Please check your service provider's data roaming policy before proceeding.
Bandwidth Allowance Monitor	Check the box **Enable** to enable bandwidth usage monitoring on this WAN connection for each billing cycle. When this option is not enabled, bandwidth usage of each month is still being tracked but no action will be taken.



WAN Connection Settings	
DNS Servers	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 assigned by the WAN DHCP server being used for outbound DNS lookups over the connection. (The DNS servers are obtained along with the WAN IP address assigned by the DHCP server.) When using 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.
Reply to ICMP PING	If the **No** is ticked, 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.
Enable IP Passthrough	When this IP Passthrough option is active, after the ethernet WAN connection is up, the adapter's DHCP server will offer the connection's IP address to one LAN client. All incoming or outgoing traffic will be routed without NAT. Regardless the WAN connection's state, the router always binds to the LAN IP address (Default: 192.168.50.1). So when the ethernet WAN is connected, the LAN client could access the router's web admin by manually configuring its IP address to the same subnet as the router's LAN IP address (e.g. 192.168.50.10). **Note: when this option is firstly enabled, the LAN client may not be able to refresh its IP address to the ethernet WAN IP address in a timely fashion. The LAN client may have to manually renew its IP address from DHCP server. After this option is enabled, the DHCP lease time will be 2 minutes. I.e. the LAN client could refresh its IP address and access the network at most one minute after the ethernet WAN connection goes up.**

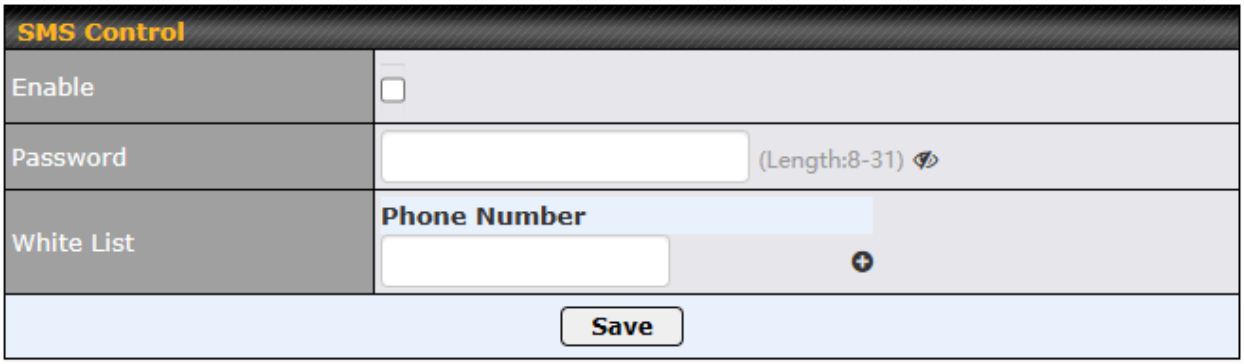


LAN DHCP	
Local IP Address	The IP address of the MAX Adapter on the USB-C.
Subnet Mask	Subnet Mask of the MAX Adapter on the USB-C.
DHCP Server	When this setting is **Enabled**, the MAX Adapter DHCP server automatically assigns an IP address to each computer that is connected via USB-C or RJ45 and configured to obtain an IP address via DHCP. The MAX Adapter's DHCP server can prevent IP address collisions on the USB-C.
Starting IP Address	Starting IP address to be assigned.
Maximum Number of DHCP Users	The maximum number of users can be assigned.
Client Lease Time	The amount of time before the DHCP server reclaims an IP address.
DHCP Reservation	This setting reserves the assignment of fixed IP addresses for a list of clients on the LAN.
Enable Logging	Enable logging of DHCP events in the event log by selecting the checkbox.

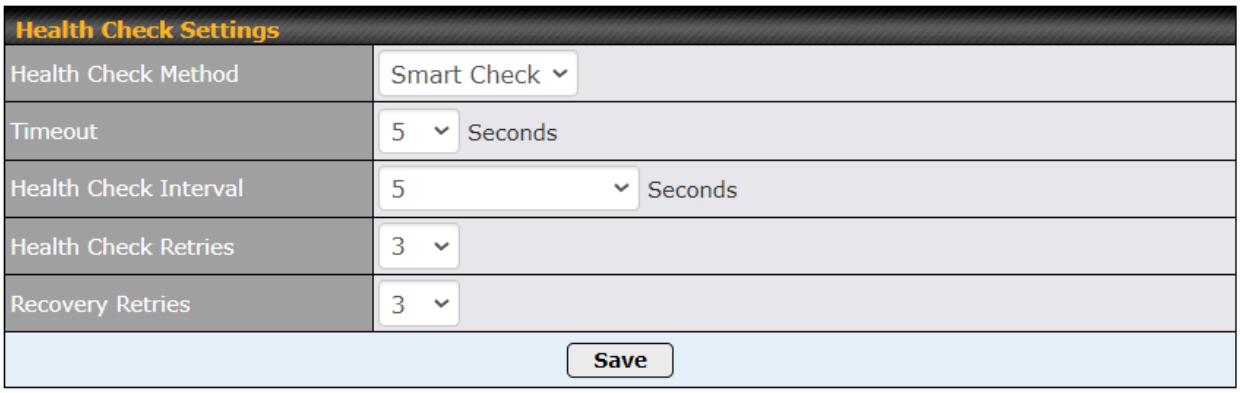


DNS Proxy Settings	
Enable	A DNS proxy server can be enabled to serve DNS requests originating from LAN. Requests are forwarded to the DNS servers/resolvers defined for each WAN connection.
DNS Caching	This field is to enable DNS caching on the built-in DNS proxy server. When the option is enabled, queried DNS replies will be cached until the records' TTL has been reached. This feature can help improve DNS lookup time. However, it cannot return the most up-to-date result for those frequently updated DNS records. By default, DNS Caching is disabled.
Including Google Public DNS	When this option is enabled, the DNS proxy server will also forward DNS requests to Google's Public DNS Servers, in addition to the DNS servers defined in each WAN. This could increase the DNS service's availability. This setting is disabled by default.
Local DNS Records	This table is for defining custom local DNS records. A static local DNS record consists of a host name and IP address. When looking up the host name from the LAN to LAN IP of the Max Adapter, the corresponding IP address will be returned.

Physical Interface Settings	
MTU	This field is for specifying the Maximum Transmission Unit value of the WAN connection. An excessive MTU value can cause file downloads stall shortly after connected. You may consult your ISP for the connection's MTU value. The default value is 1440.
TTL	This field determines the Time-to-live (TTL) of the outgoing WAN packets.



SMS Control	
Enable	Enable device control using SMS messages.
Password	Create a password that must be in each SMS sent command.
White List	Enter phone numbers that can send SMS commands.

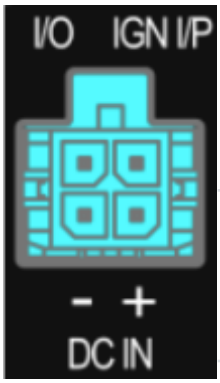


Health Check Settings	
Health Check Method	This setting specifies the health check method for the WAN connection. For mobile Internet connections, the value of Method can be configured as **SmartCheck** or **Disabled/Ping/HTTP/DNS Lookup**
Timeout	This setting specifies the timeout in seconds for ping/DNS lookup requests. The default timeout is 5 seconds.
Health Check Interval	This setting specifies the time interval in seconds between ping or DNS lookup requests. The default health check interval is 5 seconds.
Health Check Retries	This setting specifies the number of consecutive ping/DNS lookup timeouts after which the Peplink router will treat the corresponding WAN connection as down. Default health retries is set to 3. Using the default Health Retries setting of 3, the corresponding WAN connection will be treated as down after three consecutive timeouts.
Recovery Retries	This setting specifies the number of consecutive successful ping/DNS lookup responses that must be received before the Peplink router treats a previously down WAN connection as up again. By default, Recover Retries is set to 3. Using the default setting, a WAN connection that is treated as down will be considered as up again upon receiving three consecutive successful ping/DNS lookup responses.

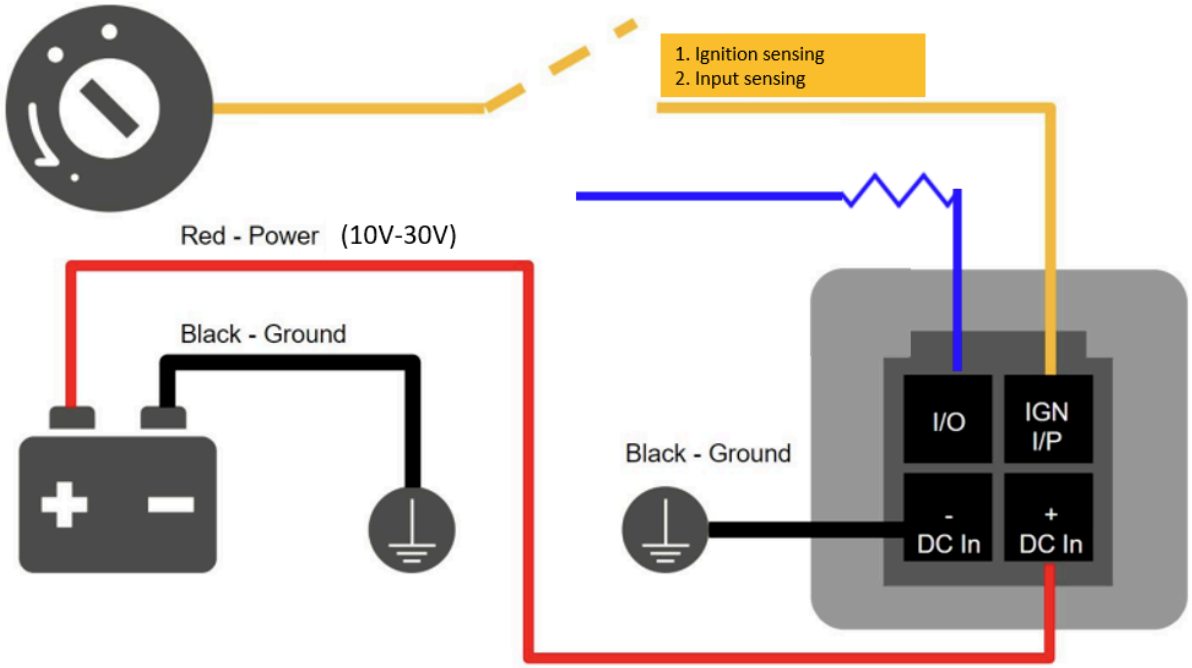
Ignition Sensing

Ignition Sensing detects the ignition signal status of a vehicle it is installed in.
This feature allows the cellular router to start up or shut down when the engine of that vehicle is started or turned off.
The time delay setting between ignition off and power down of the router is a configurable setting, which allows the router to stay on for a period of time after the engine of a vehicle is turned off.

Ignition Sensing installation

	Function		Colour Wire
	**I/O**	Digital Input / Digital Output / Analog Input	Brown
	IGN I/P	Digital Input / Ignition Sensing	Orange
	DC IN **–**	connected to permanent negative feed (ground)	Black
	DC IN **+**	connected to permanent positive feed (power)	Red

Connectivity diagram for devices with 4-pin connector



GPIO Menu

Note: This feature is applicable for certain models that come with a GPIO interface.

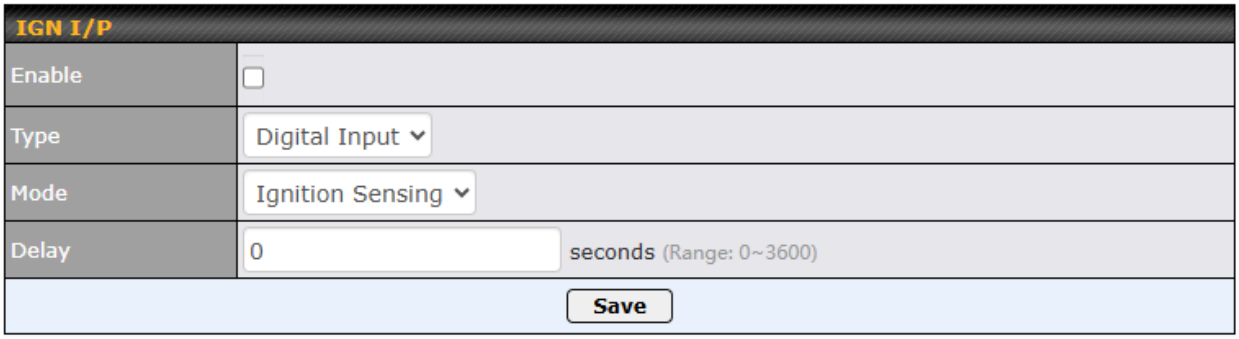
Ignition Sensing options can be found in **Advanced > GPIO.**

The configurable option for Ignition Input is **Delay;** the time in seconds that the router stays powered on after the ignition is turned off.

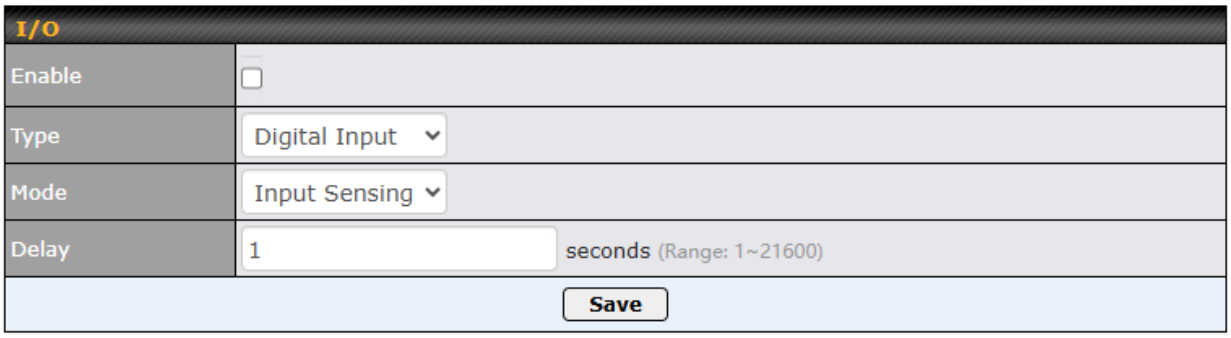
a.) Ignition sensing: 9-30V active high for IGN purpose

b.) Input Sensing: I/O input

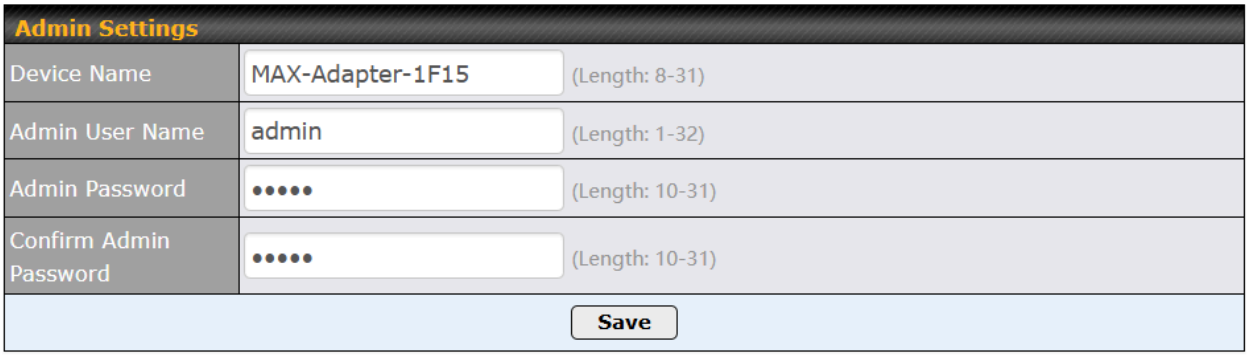
Digital Input – the connection supports input sensing; it reads the external input and determines if the settings should be 'High' (on) or 'Low' (off).



a.) Digital output:
Open drain for IO output. It is required to add an external pull up resistor of 10K for 3.3-50V pull up voltage.
(DO NOT exceed 250mA)
3.3-30V active high, 0.05-0.5V active low(mapping to 3.3-30V pull up voltage)
b.) Digital input: I/O input



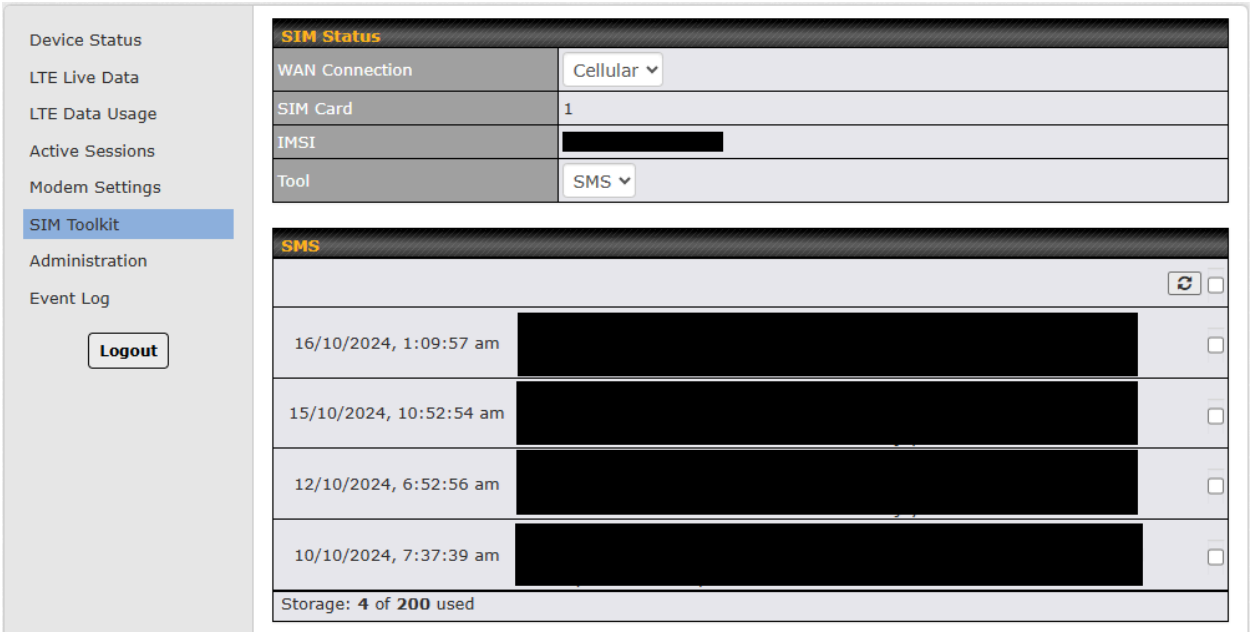
Analog Input – to be confirmed. In most cases, it should read the external input and determine the voltage level.



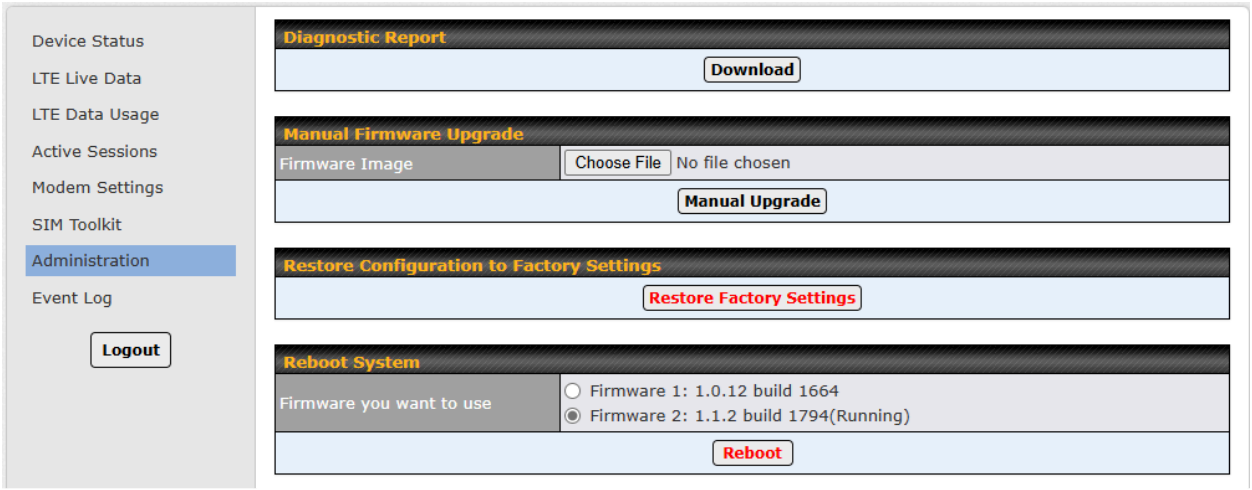
Admin Settings	
Device Name	Device Name to display.
Admin User Name	Username for login to the device.
Admin Password	Password for login to the device.
Confirm Admin Password	Re-type password to ensure the password is matched.

4.7 SIM Toolkit

The SMS option allows you to read SMS (text) messages that have been sent to the SIM in your MAX Adapter.



4.8 Administration

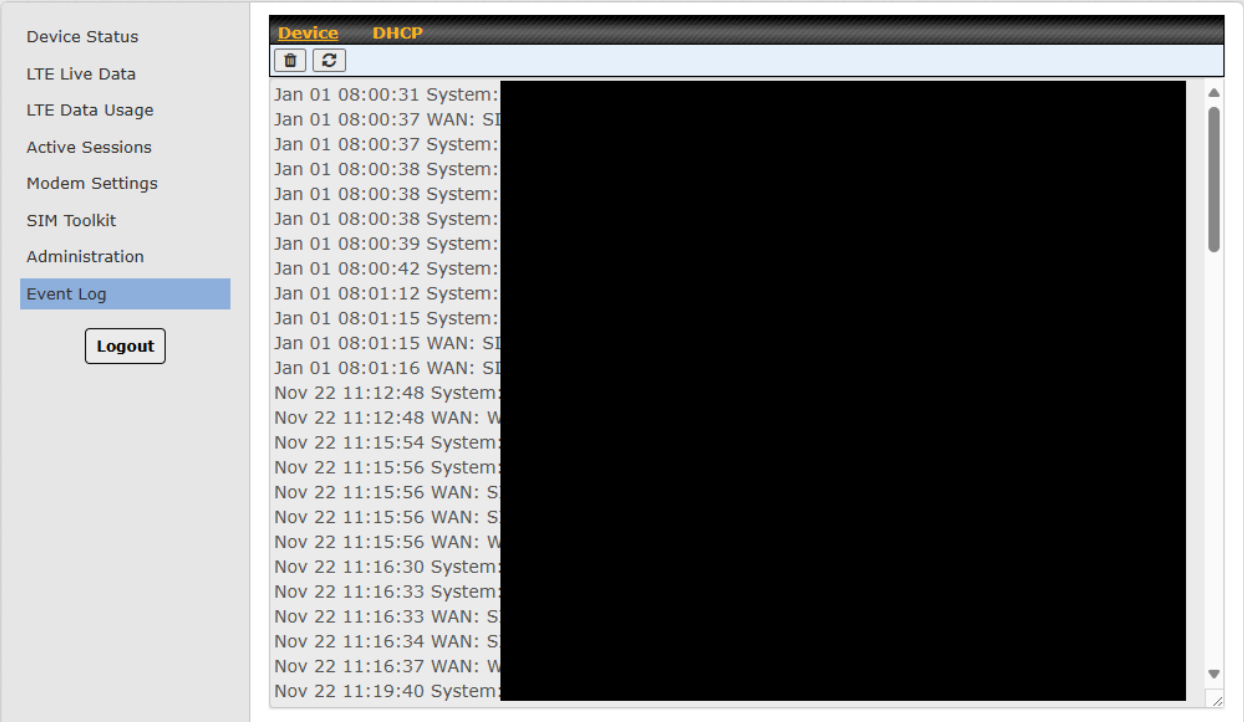


Administration	
Diagnostic Report	The **Download** link is for exporting a diagnostic report file required for system investigation.
Manual Firmware Update	To update the device firmware, download a firmware file into your PC and upload it on the **Choose File** to perform a manual download.

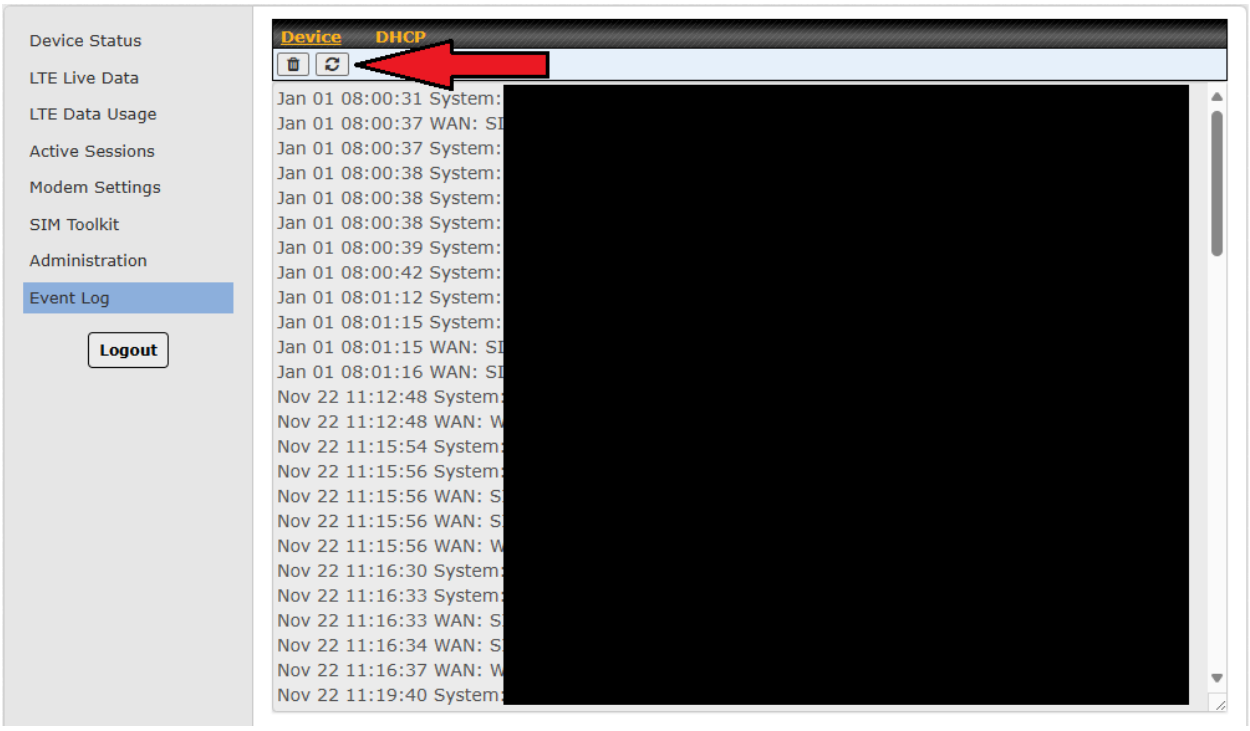
Restore Configuration to Factory Settings	The Restore Factory Settings button is to reset the configuration to factory default settings. After clicking the button, you will need to click the **"OK"** button on the top pop up to make the settings effective.
Reboot System	Reboot button for restarting the system. For maximum reliability, the Max Adapter can be equipped with two copies of firmware, and 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.**

4.9 Event log

The log section displays a list of events that have taken place on the MAX Adapter.



Check the Refresh button to refresh log entries manually. Click on the Delete button to clear the log.


Device Status
LTE Live Data
LTE Data Usage
Active Sessions
Modem Settings
SIM Toolkit
Administration
Event Log
Logout
Device
DHCP
Jan 01 08:00:31 System:
Jan 01 08:00:37 WAN: SI
Jan 01 08:00:37 System:
Jan 01 08:00:38 System:
Jan 01 08:00:38 System:
Jan 01 08:00:38 System:
Jan 01 08:00:39 System:
Jan 01 08:00:42 System:
Jan 01 08:01:12 System:
Jan 01 08:01:15 System:
Jan 01 08:01:15 WAN: SI
Jan 01 08:01:16 WAN: SI
Nov 22 11:12:48 System:
Nov 22 11:12:48 WAN: W
Nov 22 11:15:54 System:
Nov 22 11:15:56 System:
Nov 22 11:15:56 WAN: S
Nov 22 11:15:56 WAN: S
Nov 22 11:15:56 WAN: W
Nov 22 11:16:30 System:
Nov 22 11:16:33 System:
Nov 22 11:16:33 WAN: S
Nov 22 11:16:34 WAN: S
Nov 22 11:16:37 WAN: W
Nov 22 11:19:40 System:

5. Declaration

Ethernet Cables

We recommend that you use a shielded cable to connect the Ethernet ports for the network.

FCC Requirements for Operation in the United States
Federal Communications Commission (FCC) Compliance Notice:

Federal Communication Commission Interference Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

6. UK PSTI Statement of Compliance

PSTI Statement of Compliance

We hereby declare that the product specified below is fully compliant with the applicable security requirements under Schedule 1 of the Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 (**"PSTI"**).

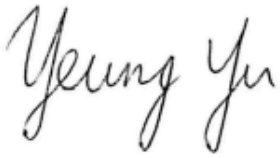
Product Description	Peplink MAX Adapter
Model	MAX Adapter MAX-ADP-LTE-EU-T-PRM
Product Code	MAX-ADP-LTE-EU-T-PRM
Defined Support Period	5 years up to product's end-of-life date
Manufacturer Name	Pismo Labs Technology Limited
Manufacturer Address	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong

In line with those requirements, please be advised that:

1. Password for the product is to be defined by the user upon their first login.

2. Users can submit a security issues report about any security vulnerabilities by emailing to support@peplink.com or submitting a ticket at Peplink Ticketing System (https://ticket.peplink.com/). If submitted by email, users will receive an acknowledgement. In either case, users will receive status updates at the Peplink Ticketing System.

3. We generally provide security updates for up to 5 years after a product's end-of-life date (i.e. a **"defined support period"**). For more information, please visit, https://www.peplink.com/support/downloads/



Eddy Yeung
Director for Software Engineering
Issued from Hong Kong
On 03 September 2024

7. EU Cybersecurity Declaration of Conformity

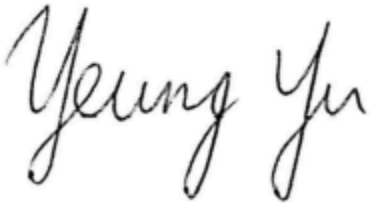
EU Declaration of Conformity

We hereby declare that the product specified below is in conformity with the Union harmonization legislations – Radio Equipment Directive 2014/53/EU (RED) article 3.3 essential requirement for cybersecurity.

Product Description	Peplink Pepwave Wireless Product
Model	MAX Adapter MAX-ADP-LTE-EU-T-PRM
Manufacturer Name	Pismo Labs Technology Limited
Manufacturer Address	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong

The essential requirement of the legislation with the following standards:

1. EN 18031-1:2024 (article 3.3)



Eddy Yeung
Director for Software Engineering
Issued from Hong Kong
On 18 July 2025