

User Manual

Peplink AP One / Peplink AP Pro Series:

AP One AX / AP One AX Lite / AP One Enterprise /
AP One Rugged / AP Pro AX / AP One Mini

Peplink AP One Firmware 3.9.5

August 2026

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Introduction and Scope

Our AP Series of enterprise-grade 802.11ac/a/b/g/n Wi-Fi access points is engineered to provide fast, dependable, and flexible operation in a variety of environments, all controlled by an easy-to-use centralized management system.

From the small but powerful AP One Mini to the top-of-the-line AP Pro Duo our AP Series offers wireless networking solutions to suit any business need, and every access point is loaded with essential features such as multiple SSIDs, VLAN, Mesh, WDS, and Guest Protect.

A single access point provides as many as 32 virtual access points (16 on single-radio models), each with its own security policy (WPA, WPA2, etc.) and authentication mechanism (802.1x, open, captive portal, etc.), allowing faster, easier, and more cost-effective network builds. Each member of the AP Series family also features a high-powered Wi-Fi transmitter that greatly enhances coverage and performance while reducing equipment costs and maintenance.

1 Product Features and Benefits

Key features and benefits of AP Series access points:

- High-powered Wi-Fi transmitter that enhances coverage and lowers cost of ownership.
- Independent security policies and encryption mechanisms for each virtual access point allow fast, flexible, cost-effective network builds.
- Centralized management via InControl reduces maintenance expense and time.
- Mesh support allows for wireless expansion and enhancement of Wi-Fi coverage.
- WDS support allows secure and fast network expansion.
- Guest Protect support guards sensitive business data and subnetworks.
- WMM (Wi-Fi Multimedia) and QoS (Quality of Service) support keeps video and other bandwidth-intensive data flowing fast and lag-free.
- Supports Wi-Fi Air Monitoring for remote troubleshooting, and proactively monitoring Wi-Fi and WAN performance.

2 Package Contents

AP One AX (APO-AX)

- 1 x AP One AX
- 1 x Ceiling Mount
- 1 x Screw Kit

AP One AX Lite (APO-AX-LITE)

- 1 x AP One AX Lite
- 1 x Ceiling Mount
- 1 x Screw Kit

AP One Enterprise (APO-ENTR)

- 1x AP One Enterprise
- 2x T-Rail Clips with Screws Set
- 1x Mounting Bracket
- 1x Mounting Screw Set
- 1x L-Shaped Hexagonal Wrench

AP One Rugged (APO-AC-RUG)

- 1 x AP One Rugged
- 1 x 12V2A Power Supply
- 2 x Dual Band Wi-Fi Antennas

AP Pro AX (APP-AX-IP67)

- 1x AP Pro AX
- 1x Water Proof M25 Ethernet cable gland
- 1x Water Proof DC power plug
- 1x Mounting kit 1x M6 screw set
- 1x Wall screw with anchor set

AP One Mini (APO-AC-MINI)

- 1 x AP One mini
- 1 x 12V2A Power supply
- 1 x Mounting Bracket

3 Hardware Overview

3.1 AP One AX

Front View



Top

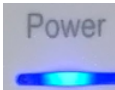
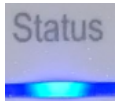
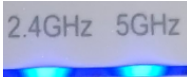


Bottom



Side



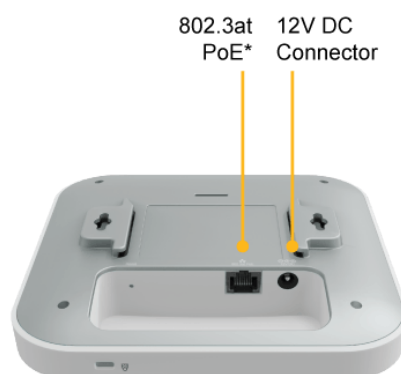
LED Indicators		
Power 	Blue LED	OFF – Power is Off ON – Power is On
Status 	Blue LED	OFF – Access point is initializing ON – Access point is ready
Ethernet Port 	Blue LED	OFF – No data is being transferred or no device is connected to the Ethernet port BLINKING – Ethernet port is sending/receiving data ON – A powered-on device is connected to Ethernet port
	Port Type	Auto MDI/MDI-X ports
Wi-Fi 	Blue LED	OFF – 2.4/5GHz Wi-Fi radio is off ON – 2.4/5GHz Wi-Fi radio is on / no Wi-Fi mesh uplink BLINKING – Indicates the state of the 2.4/5GHz Wi-Fi mesh uplink

3.2 AP One AX Lite

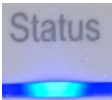
Front View



AP-ONE-AX-LITE



* AC/DC adapter and PoE Injector are not included.

LED Indicators		
Status 	Blue LED	OFF – Access point is initializing ON – Access point is ready
Ethernet Port 	Blue LED	OFF – No data is being transferred or no device is connected to the Ethernet port BLINKING – Ethernet port is sending/receiving data ON – A powered-on device is connected to the Ethernet port
	Port Type	Auto MDI/MDI-X ports
Wi-Fi 	Blue LED	OFF – 2.4/5GHz Wi-Fi radio is off ON – 2.4/5GHz Wi-Fi radio is on / no Wi-Fi mesh uplink BLINKING – Indicates the state of the 2.4/5GHz Wi-Fi mesh uplink state

3.3 AP One Enterprise

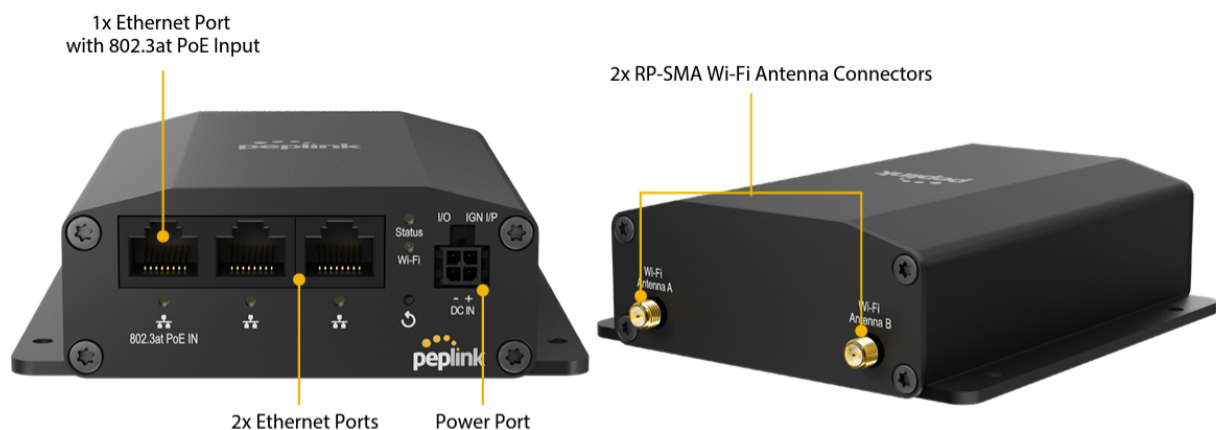
Front View



LED Indicators		
Status	RED	Access point initializing
	Blinking Red	Boot up error
	GREEN	Access point ready
	Blinking Green	Device firmware update in process

3.4 AP One Rugged

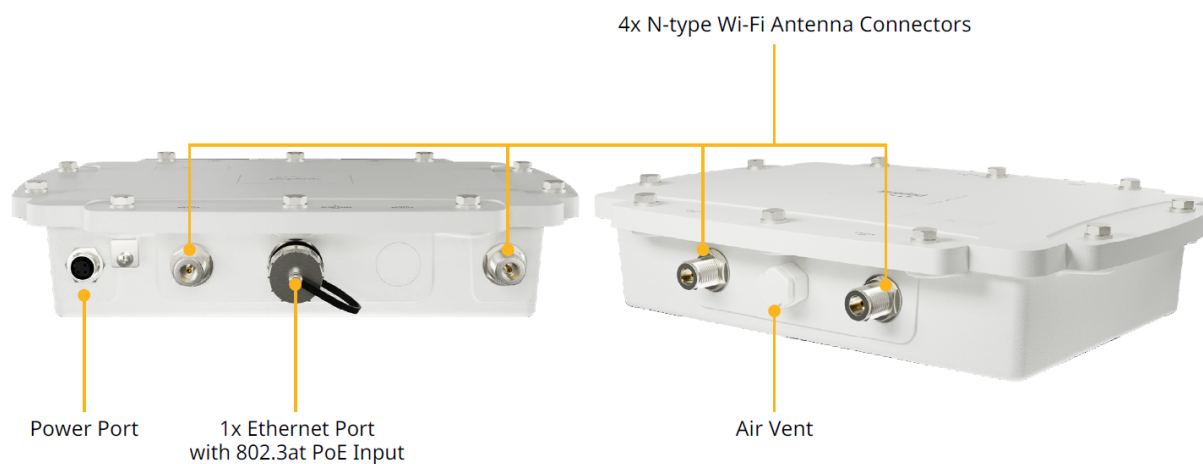
Front View



LED Indicators	
Status	RED – Access point is initializing
	GREEN – Access point is ready
Wi-Fi	OFF – Wi-Fi AP is off
	GREEN – Wi-Fi AP is on
Ethernet Port	ON – Port is connected without traffic LAN
	BLINKING – Ethernet port sending/receiving data
	OFF – No data is being transferred or No device connected to Ethernet port

3.5 AP Pro AX

Front View

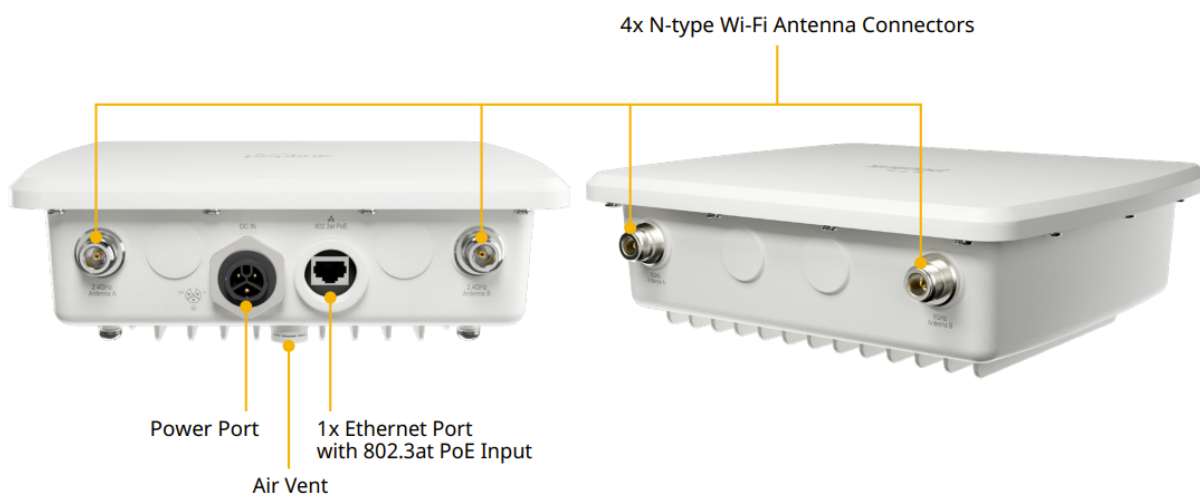


LED Indicators

Status

- OFF – Access point is initializing
- ON – Access point is ready

3.6 AP Pro AX (HW2)

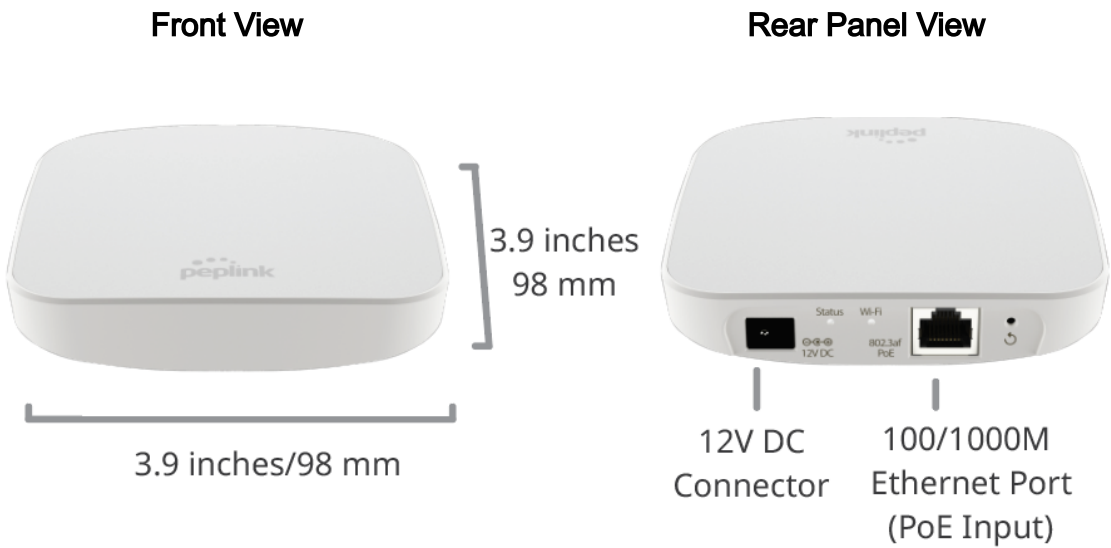


LED Indicators

Status

- OFF – Access point is initializing
- ON – Access point is ready

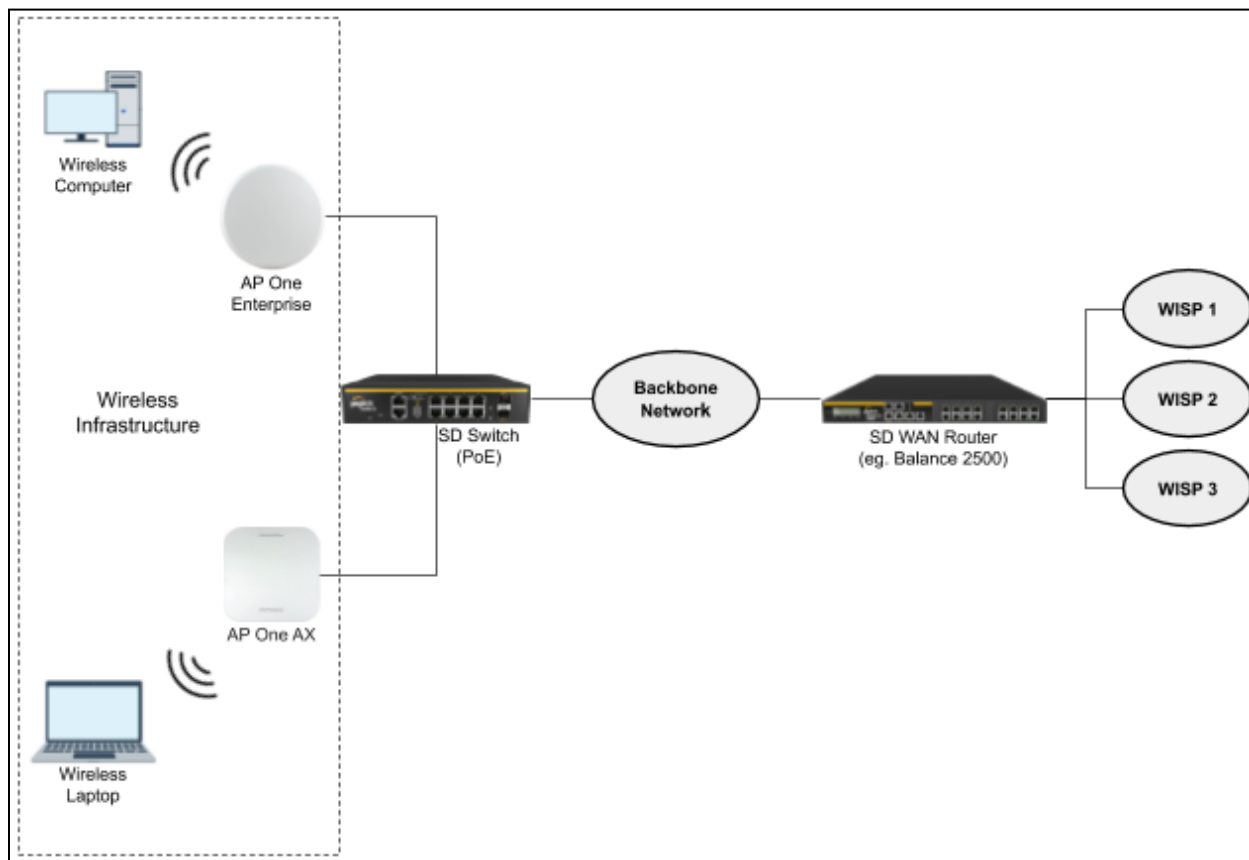
3.7 AP One Mini



LED Indicators	
Status	RED – Access point initializing GREEN – Access point ready
Wi-Fi	OFF – 2.4/5GHz Wi-Fi radio off BLINKING – AP sending/receiving data GREEN – 2.4/5GHz Wi-Fi radio on Note that this model includes a 2.4GHz Wi-Fi radio and a 5GHz Wi-Fi radio that can operate simultaneously to increase speed and reduce interference.

4 Installation

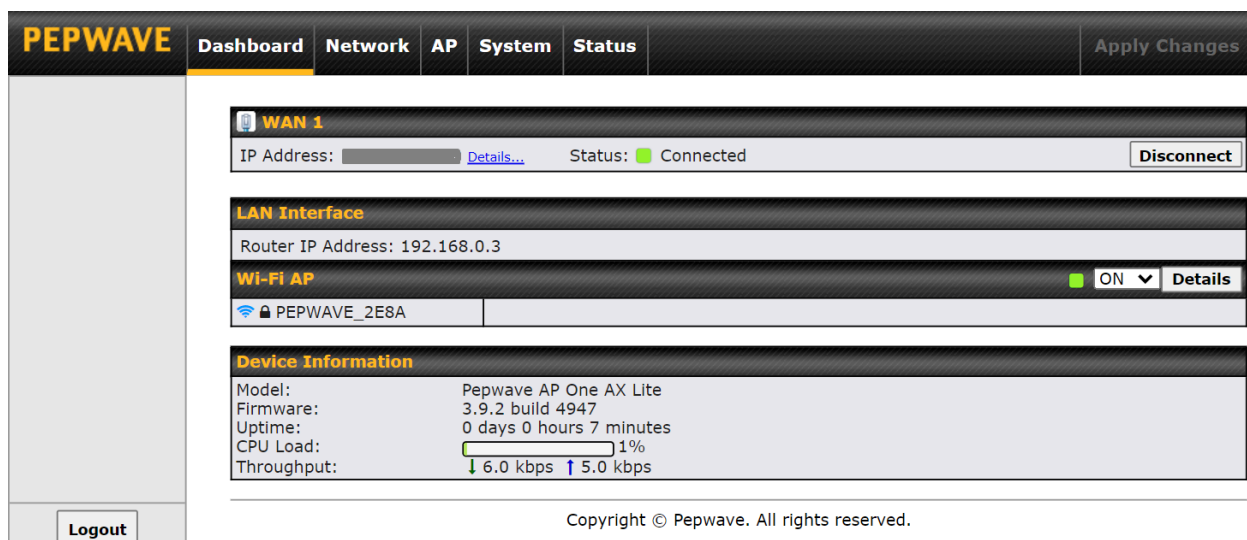
Your access point acts as a bridge between wireless and wired Ethernet interfaces.
A typical setup follows:



Installation Procedures

1. Connect the Ethernet port on the unit to the backbone network using an Ethernet cable. The port should auto sense whether the cable is straight-through or crossover.
2. There are two methods to power on the device as below:
 - 2.1 For those Peplink AP devices having built-in PoE ports only, using an Ethernet cable to connect to the Power over Ethernet (PoE) switch or PoE injector.
 - 2.2 For those Peplink AP devices that have a DC power source, plug the AC adapter to the DC connector of the unit.
3. Wait for the status LED to turn green.

4. Connect a PC to the backbone network. Configure the IP address of the PC to be any IP address between 192.168.0.4 and 192.168.0.254, with a subnet mask of 255.255.255.0.
5. Using your favourite browser, connect to <https://192.168.0.3>.
6. Enter the default admin login ID and password, admin and public respectively.
7. After logging in, the Dashboard appears. Click the System tab to begin setting up your access point.



The screenshot shows the Pepwave System Dashboard. The top navigation bar includes tabs for Dashboard, Network, AP, System, and Status, with an 'Apply Changes' button on the right. The main content area is divided into several sections:

- WAN 1**: Shows IP Address (with a 'Details...' link) and Status (Connected, with a 'Disconnect' button).
- LAN Interface**: Shows Router IP Address: 192.168.0.3.
- Wi-Fi AP**: Shows a status indicator (ON) and a 'Details' button.
- Device Information**: A table listing system details.

Model:	Pepwave AP One AX Lite
Firmware:	3.9.2 build 4947
Uptime:	0 days 0 hours 7 minutes
CPU Load:	1%
Throughput:	↓ 6.0 kbps ↑ 5.0 kbps

A 'Logout' button is located in the bottom left corner. The footer text reads: 'Copyright © Pepwave. All rights reserved.'

5 Dashboard

The **Dashboard** section contains a number of displays to keep you up-to-date on your access point's status and operation. Remote assistance can also be turned off here, if it has been enabled.

This section contains WAN status and general device information.

WAN	
IP Address	When your access point is connected to a WAN, this field displays the WAN IP address. For more information, click the Details link which shows connection type details
Status	This field displays the current WAN connection status.

Device Information	
Model:	Pepwave AP One AX Lite
Firmware:	3.9.2 build 4947
Uptime:	0 days 0 hours 8 minutes
CPU Load:	2%
Throughput:	40.0 kbps / 102.0 kbps

Device Information	
Model	This field displays your access point's model number.
Firmware	The firmware version currently running on your access point appears here.
Uptime	This field displays your access point's uptime since the last reboot or shutdown.
CPU Load	This field shows current loading (0%-100%) on your access point.
Throughput	This field displays your access point's transfer rate in kbps.

6 Network

The settings on the **Network** tab control WAN, LAN, and Port Settings. It also allows you to set up Captive Portal profiles and Misc Settings.

Additionally, some settings on the **Network** tab are able to control PepVPN, Inbound Access, NAT Mapping, and QoS when your access point is operating in **Router Mode**.

6.1 WAN

WAN connection details need to be configured in order to connect the router to the Internet.

PEPWAVE

Dashboard

Network

AP

System

Status

Apply Changes

WAN

LAN

■ Network Settings

■ Port Settings

VPN

Connection Name	Method	Routing Mode	Type
1. <u>WAN 1</u>	DHCP	NAT	Always-on

To configure a WAN connection, go to **Network > WAN** from the menu and select the desired WAN connection by clicking on its name.

WAN Connection Settings	
WAN Connection Name	WAN 1
Enable	☒
Connection Method	DHCP Static IP PPPoE
Routing Mode	☒ NAT ☐ Static
Hostname (Optional)	☐ Use custom hostname
DNS Servers	☒ Obtain DNS server address automatically ☐ Use the following DNS server address(es) DNS Server 1: DNS Server 2:
Connection Priority	☒ Always-on (Priority 1) ☐ Backup
Independent from Backup WANs	☐
Reply to ICMP Ping	☒ Yes ☐ No
Upload Bandwidth	1 Mbps Gbps
Download Bandwidth	1 Mbps Gbps

WAN Connection Settings	
WAN Connection Name	Enter a name to represent this WAN connection.
Enable	This setting enables the WAN connection. If schedules have been defined, you will be able to select a schedule to apply to the connection.
Connection Method	There are three possible connection methods for Ethernet WAN: • DHCP • Static IP • PPPoE The connection method and details are determined by, and can be obtained from the ISP.
Hostname	Provide a hostname for this WAN port if requested by the ISP.
DNS Server	Enter the DNS server address that your access point will use to resolve host names.
Connection Priority	This option allows you to configure the WAN connection, whether for normal daily usage or as a backup connection only. If Always-on is selected, the WAN connection will be kept on continuously, regardless of the priority of other WAN connections. If Backup is selected, the WAN connection will depend on other WAN connections. It will not be used when one or more higher priority dependent WAN connections are connected.

Independent from Backup WANs	If this is checked, the connection will be working independently from other backup WAN connections. WAN connections whose Connection Priority are set to Backup will ignore the status of this WAN connection, and will be used when none of the other higher priority connections are available.
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)
Upload Bandwidth	This field refers to the maximum upload speed. This value is referenced when default weight is chosen for outbound traffic and traffic prioritization. A correct value can result in effective traffic prioritization and efficient use of upstream bandwidth.
Download Bandwidth	This field refers to the maximum download speed. Default weight control for outbound traffic will be adjusted according to this value.

Physical Interface Settings	
Port Speed	Auto
MTU	☒ Auto ☐ Custom
MSS	☒ Auto ☐ Custom
MAC Address Clone	☒ Default ☐ Custom 00:1A:DD:7B:67:E0
VLAN	☐

Physical Interface Settings	
Port Speed	This is the port speed of the WAN connection. It should be set to the same speed as the connected device in case of any port negotiation problems. When a static speed is set, you may choose whether to advertise its speed to the peer device or not. In this setting, Advertise Speed is selected by default. You can choose not to advertise the port speed if the port has difficulty in negotiating with the peer device. The default setting for Port Speed is: Auto.
MTU	This field is for specifying the Maximum Transmission Unit value of the WAN connection. An excessive MTU value can cause file downloads to stall shortly after connecting. You may consult your ISP for the connection's MTU value. The default value is 1440.
MSS	This setting should be configured based on the maximum payload size that the local system can handle. The MSS (maximum segment size) is computed from the MTU minus 40 bytes for TCP over IPv4. If the MTU is set to Auto, the MSS will also be set automatically. By default, MSS is set to Auto.
MAC Address Clone	Some service providers (e.g. cable providers) identify the client's MAC address and require the client to always use the same MAC address to connect to the network. In such cases, change the WAN interface's MAC address to the original client PC's MAC

	address via this field. The default MAC address is a unique value assigned at the factory. In most cases, the default value is sufficient. Clicking Default restores the MAC address to the default value.
VLAN	Click the square if you wish to enable VLAN functionality for the WAN connection and enable multiple broadcast domains. Once you enable VLAN, you will be able to enter a name for your network.

Health Check Settings

To ensure traffic is routed only to healthy WAN connections, the Peplink AP can periodically check the health of each WAN connection. The health check settings for each WAN connection can be independently configured via **Network > WAN > *Connection Name* > Health Check Settings**.

Health Check Settings

This setting specifies the health check method for the WAN connection. This value can be configured as **Disabled**, **PING**, **DNS Lookup**, or **HTTP**. The default method is **DNS Lookup**.

- Health Check Method: Disabled**

Health Check Settings

Health Check Method	? Disabled
---------------------	---

Health Check disabled. Network problems cannot be detected.

When **Disabled** is chosen in the method field, the WAN connection will always be considered as up. The connection will **NOT** be treated as down in the event of IP routing errors.
- Health Check Method: PING**

Health Check Settings

Health Check Method	? PING
PING Hosts	? Host 1: Host 2: ☒ Use first two DNS servers as PING Hosts

ICMP ping packets will be issued to test the connectivity with a configurable target IP address or hostname. A WAN connection is considered as up if ping responses are received from either one or both of the ping hosts.

PING Host: This setting specifies IP addresses or hostnames with which connectivity is to be tested via ICMP ping.

If the **Use first two DNS servers as Ping Hosts** is checked, the target ping host will be the first DNS server for the corresponding WAN connection. Reliable ping hosts with a high uptime should be considered. By default, the first two DNS servers of the WAN connection are used as the ping hosts.

Health Check Method

- **Health Check Method: DNS Lookup**

Health Check Settings	
Health Check Method	DNS Lookup
Health Check DNS Servers	Host 1: Host 2: ☒ Use first two DNS servers as Health Check DNS Servers ☐ Include public DNS servers

DNS lookups will be issued to test connectivity with target DNS servers. The connection will be treated as up if DNS responses are received from one or both of the servers, regardless of whether the result was positive or negative.

DNS Servers: This field allows you to specify two DNS hosts' IP addresses with which connectivity is to be tested via DNS Lookup.

If the **Use first two DNS servers as Health Check DNS Servers** is checked, the first two DNS servers will be the DNS lookup targets for checking a connection's health. If the box is not checked, **Host 1** must be filled, while a value for **Host 2** is optional.

If the **Include public DNS servers** is checked and no response is received from all specified DNS servers, DNS lookups will also be issued to some public DNS servers. A WAN connection will be treated as down only if there is also no response received from the public DNS servers.

Connections will be considered as up if DNS responses are received from any one of the health check DNS servers, regardless of a positive or negative result. By default, the first two DNS servers of the WAN connection are used as the health check DNS servers.

- **Health Check Method: HTTP**

Health Check Settings	
Health Check Method	HTTP
URL 1	http:// Matching String: ☐
URL 2	http:// Matching String: ☐

HTTP connections will be issued to test connectivity with configurable URLs and strings to match.

URL 1: The URL will be retrieved when performing an HTTP health check. When **Matching String** is left blank, a health check will pass if the HTTP return code is between 200 and 299 (Note: HTTP redirect codes 301 or 302 are treated as failures).

When **Matching String** is filled, a health check will pass if the HTTP return code is between 200 and 299 and if the HTTP response content contains the string.

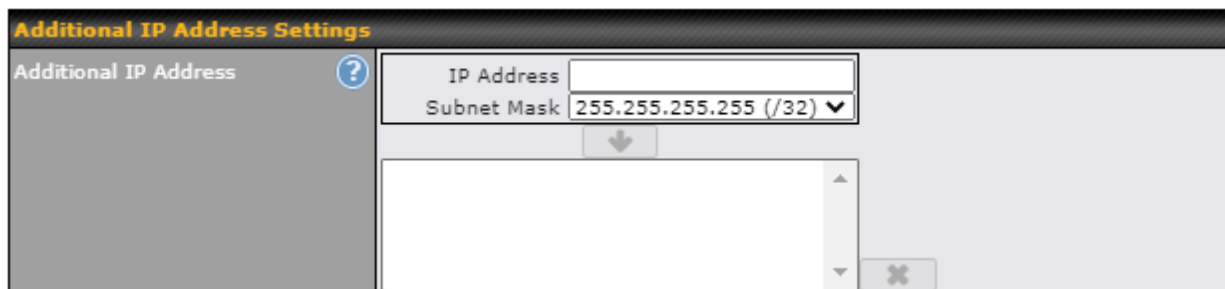
URL 2: If URL 2 is also provided, a health check will pass if either one of the tests passed.

Timeout

If a health check test cannot be completed within the specified amount of time, the test will be treated as failed.

Health Check Interval	This is the time interval between each health check test.
Health Check Retries	This is the number of consecutive health check failures before treating a connection as down.
Recovery Retries	This is the number of responses required after a health check failure before treating a connection as up again.

Additional IP Address Settings



Additional IP Address Settings	
Additional IP Address	The IP Address list represents the list of fixed Internet IP addresses assigned by the ISP in the event that more than one Internet IP address is assigned to this WAN connection.

Dynamic DNS Settings

Peplink access points are capable of registering the domain name relationships to dynamic DNS service providers. Through registration with dynamic DNS service provider(s), the default public Internet IP address of each WAN connection can be associated with a host name. With dynamic DNS service enabled for a WAN connection, you can connect to your WAN's IP address from external sources, even if its IP address is dynamic. You must register for an account from the listed dynamic DNS service providers before enabling this option.

If the WAN connection's IP address is a reserved private IP address (i.e. behind a NAT router), the public IP of each WAN will be automatically reported to the DNS service provider.

Either upon a change in IP addresses or every 23 days without link reconnection, the Peplink router will connect to the dynamic DNS service provider to perform an IP address update within the provider's records.



Dynamic DNS Settings	
Service Provider	This setting specifies the dynamic DNS service provider to be used for the WAN based on supported dynamic DNS service providers: • changeip.com • dyndns.org • no-ip.org • DNS-O-Matic • Others... When Others... is selected, it supports custom Dynamic DNS servers by entering its URL. Works with any service compatible with DynDNS API. Select Disabled to disable this feature.
User ID / Username / Email	This setting specifies the registered user name for the dynamic DNS service.
Password	This setting specifies the password for the dynamic DNS service.
Hosts	This setting specifies a list of hostnames or domains to be associated with the public Internet IP address of the WAN connection.
Update All Hosts	Check this box to automatically update all hosts.

DNS over HTTPS (DoH)

*Please note that the following settings are available only for AP One Rugged (HW2). You can enable the DoH support in this section.

DNS over HTTPS
Disabled 

When this option is enabled, the DNS proxy server will use HTTPS connection to forward DNS requests to the DoH resolver, it will not fallback to traditional UDP DNS.

To configure custom DNS over HTTPS resolver, select Custom URL:, enter resolver URL and IP address.

DNS over HTTPS
✕

Enable	☒
Server	Cloudflare ▼ Cloudflare Quad9 Google DNS OpenDNS Custom URL:

DNS over HTTPS	
Enable	When this option is enabled, the DNS proxy server will use HTTPS connections to forward DNS requests to the DoH resolver; it will not fallback to traditional UDP DNS options.
Server	The options to configure DoH with a predefined server are: - Cloudflare - The DNS server IP addresses for Cloudflare will be using 1.1.1.1, which is unfiltered. - Quad9 - The DNS server IP addresses for Quad9 will be using 9.9.9.9 and 142.112.112.112, which is malware blocking and DNSSEC. - Google DNS - The DNS server IP addresses for Google DNS will be using 8.8.8.8 and 8.8.4.4, which is RFC8484 standard. - OpenDNS - The DNS server IP addresses for OpenDNS will be using 208.67.222.222 and 208.67.220.220, which is standard DNS. - Custom URL - You may select Custom URL:, and enter the resolver URL and IP address.

WAN Quality Monitoring

This settings advice how WAN Quality information is being gathered.

WAN Quality Monitoring
?

Auto

✎

By default, WAN Quality will always be observed and gathered automatically. With customized choice of WAN connections, the device will always observe WAN Quality of those selected WAN connections. Other WAN connections may stop observing WAN Quality information if it is not necessary for the underlying features.

6.2 LAN

6.2.1 Network Settings

LAN interface settings are located at **Network > LAN > Network Settings**. Navigating to that page will show the following dashboard:

LAN	VLAN	Network	
Untagged LAN	None	192.168.0.3/24	
VLAN1	1	10.10.10.1/24	
New LAN			

Clicking on any of the existing LAN interfaces (or creating a new VLAN) will show the following:

LAN

IP Settings

IP Address

255.255.255.0 (/24)

Network Settings

Name

VLAN ID

Inter-VLAN routing

☒

DHCP Relay Settings

DHCP Relay

☐ Enable

DHCP Server IP Address

DHCP Server 1:

DHCP Server 2:

DHCP Option 82

☐

DHCP Relay Logging

☐

Save

Cancel

IP Settings

IP Address

Enter the LAN IP address and subnet mask of the Peplink access point on the LAN.

NetworkSettings

Name

Enter a name for the LAN.

VLAN ID	Enter a number for your VLAN.
Inter-VLAN routing	Check this box to enable routing between virtual LANs.
DHCP Relay Settings	
DHCP Relay	Check the Enable box to enable the DHCP Relay server.
DHCP Server IP Address	Enter the IP addresses of one or two DHCP servers in the provided fields. The DHCP servers entered here will receive relayed DHCP requests from the LAN. For active-passive DHCP server configurations, enter active and passive DHCP server relay IP addresses in DHCP Server 1 and DHCP Server 2 .
DHCP Option 82	This feature includes device information as a relay agent for the attached client when forwarding DHCP requests from a DHCP client to a DHCP server. Device MAC address and network name are embedded to circuit ID and Remote ID in option 82.
DHCP Relay Logging	Enable logging of DHCP events in the eventlog by selecting the checkbox.

*Please note that the following settings will be available only when your access point is operating in **Router Mode**.

DHCP Server											
DHCP Server	☒ Enable										
DHCP Server Logging	☐										
IP Range	- 255.255.255.0 (/24)										
Lease Time	1 Days 0 Hours 0 Mins										
DNS Servers	☒ Assign DNS server automatically										
BOOTP	☐										
Extended DHCP Option	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Option</th> <th style="width: 50%;">Value</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">No Extended DHCP Option</td> </tr> <tr> <td colspan="2" style="text-align: center;"> Add </td> </tr> </tbody> </table>			Option	Value	No Extended DHCP Option		Add			
Option	Value										
No Extended DHCP Option											
Add											
DHCP Reservation	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 30%;">Name</th> <th style="width: 30%;">MAC Address</th> <th style="width: 30%;">Static IP</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td>00:00:00:00:00:00</td> <td></td> <td style="text-align: center;">+</td> </tr> </tbody> </table>			Name	MAC Address	Static IP			00:00:00:00:00:00		+
Name	MAC Address	Static IP									
	00:00:00:00:00:00		+								

DHCP Server Settings	
DHCP Server	When this setting is enabled, the DHCP server automatically assigns an IP address to each computer that is connected via LAN and configured to obtain an IP address via DHCP. The Peplink router's DHCP server can prevent IP address collision on the LAN.
DHCP Server Logging	Enable logging of DHCP events in the eventlog by selecting the checkbox.

IP Range	These settings allocate a range of IP addresses that will be assigned to LAN computers by the Peplink router'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 renewal of the IP address assignment will be required.
DNS Servers	This option allows you to input the DNS server addresses to be offered to DHCP clients. If Assign DNS server automatically is selected, the Peplink router's built-in DNS server address (i.e. LAN IP address) will be offered.
BOOTP	Check this box to enable BOOTP on older networks that still require it.
Extended DHCP Option	In addition to standard DHCP options (e.g., DNS server address, gateway address, subnet mask), you can specify the value of additional extended DHCP options, as defined in RFC 2132. With these extended options enabled, you can pass additional configuration information to LAN hosts. To define an extended DHCP option, click the Add button, choose the option to define, and then enter its value. For values that are in IP address list format, you can enter one IP address per line in the provided text area input control. Each option can be defined once only.
DHCP Reservation	This setting reserves the assignment of fixed IP addresses for a list of computers on the LAN. The computers to be assigned fixed IP addresses on the LAN are identified by their MAC addresses. The fixed IP address assignment is displayed as a cross-reference list between the computers' names, MAC addresses, and fixed IP addresses. Name (an optional field) allows you to specify a name to represent the device. MAC addresses should be in the format of 00:AA:BB:CC:DD:EE. Click on  to create a new record. Click on  to remove a record. Reserved clients information can be imported from the Client List, located at Status > Client List.

6.2.2 Port Settings

To configure port settings, navigate to **Network > LAN > Port Settings**.

Port Settings				
	Name	Enable	Speed	Advertise Speed
1	LAN Port	☒	-- Not Configurable --	

On this screen, you can configure the name of the LAN port and enable or disable a specific port.

6.3 PepVPN

PepVPN securely connects one or more remote sites to the site running your access point.

*Please note that the following settings will be available only when your access point is operating in **Router Mode**.

PEPWAVE Dashboard **Network** AP System Status Apply Changes

WAN

LAN

- Network Settings
- Port Settings

VPN

- PepVPN**

Inbound Access

- Port Forwarding

NAT Mappings

Captive Portal

QoS

- Bandwidth Control
- Application

Misc. Settings

- RADIUS Server
- Certificate Manager

[Logout](#)

PepVPN

InControl management enabled. Settings can now be configured on [InControl](#).

Profile	Remote ID	Remote Address(es)	
No VPN Connection Defined			
New Profile			

Send All Traffic To

No PepVPN profile selected

PepVPN Local ID

Local ID AP-One

PepVPN Settings

Link Failure Detection Time

- ☒ Recommended (Approx. 15 secs)
- ☐ Fast (Approx. 6 secs)
- ☐ Faster (Approx. 2 secs)
- ☐ Extreme (Under 1 sec)

Shorter detection time incurs more health checks and higher bandwidth overhead

[Save](#)

To set up PepVPN, first give your site a local PepVPN ID. To modify an existing local ID, click on .

PepVPN Local ID

Local ID AP_ONE

Once you've specified a local ID, click the **New Profile** button to configure PepVPN.

Profile	Remote ID	Remote Address(es)	
No VPN Connection Defined			
New Profile			

PepVPN Profile
?

Name			
Enable	☒		
Encryption	☒ 256-bit AES ☐ OFF		
Authentication	☒ Remote ID / Pre-shared Key		
Remote ID / Pre-shared Key	Remote ID	Pre-shared Key	
NAT Mode	☐		
Remote IP Address / Host Names (Optional)	 If this field is empty, this field on the remote unit must be filled		
Cost	10		
Data Port	☒ Auto ☐ Custom		
Bandwidth Limit	☐		
Receive Buffer	0 ms		

WAN Connection Priority
?

1. WAN 1	Priority: 1 (Highest) (Lowest) ▼
----------	---

Save

Cancel

PepVPN Profile Settings	
Name	Enter a name to represent this profile. The name can be any combination of alphanumeric characters (0-9, A-Z, a-z), underscores (_), dashes (-), and/or non-leading/trailing spaces ().
Enable	Check this box to enable PepVPN.
Encryption	By default, VPN traffic is encrypted with 256-bit AES . If Off is selected on both ends of a VPN connection, no encryption will be applied.
Authentication	Select Remote ID / Pre-shared Key to specify the method your access point will use to authenticate peers. When selecting Remote ID / Pre-shared Key , be sure to enter a unique peer ID number in the Remote ID field.
Remote ID / Pre-shared Key	This optional field becomes available when Remote ID / Pre-shared Key is selected as the Peplink access point's VPN Authentication method, as explained above. Pre-shared Key defines the pre-shared key used for this particular VPN connection. The VPN connection's session key will be further protected by the pre-shared key. The

	connection will be up only if the pre-shared keys on each end match.
NAT Mode	Check this box to allow the local DHCP server to assign an IP address to the remote peer. When NAT Mode is enabled, all remote traffic over the VPN will be tagged with the assigned IP address using network address translation.
Remote IP Address / Host Names (Optional)	If NAT Mode is not enabled, you can enter a remote peer's WAN IP address or hostname(s) here. If the remote peer uses more than one address, enter only one of them here. Multiple hostnames are allowed and can be separated by a space character or carriage return. Dynamic-DNS host names are also accepted. This field is optional. With this field filled, the Peplink Balance will initiate connection to each of the remote IP addresses until it succeeds in making a connection. If the field is empty, the Peplink Balance will wait for connection from the remote peer. Therefore, at least one of the two VPN peers must specify this value. Otherwise, VPN connections cannot be established.
Cost	Define path cost for this profile. OSPF will determine the best route through the network using the assigned cost. Default: 10
Data Port	This field specifies the outgoing UDP port number for transporting VPN data. If Default is selected, port 4500 will be used by default. Port 32015 will be used if port 4500 is unavailable. If Custom is selected, you can input a custom outgoing port number between 1 and 65535.
Bandwidth Limit	Define maximum download and upload speed to each individual peer. This functionality requires the peer to use PepVPN version 4.0.0 or above.
Receive Buffer	Receive Buffer can help to reduce out-of-order packets and jitter, but will introduce extra latency to the tunnel. Default is 0 ms, which disables the buffer, and the maximum buffer size is 2000 ms.
WAN Connection Priority	
WAN Connection Priority	If your device supports it, you can specify the priority of WAN connections to be used for making VPN connections. WAN connections set to OFF will never be used. Only available WAN connections with the highest priority will be used. To enable asymmetric connections, connection mapping to remote WANs, cut-off latency, and packet loss suspension time, click the  button.

Send All Traffic To

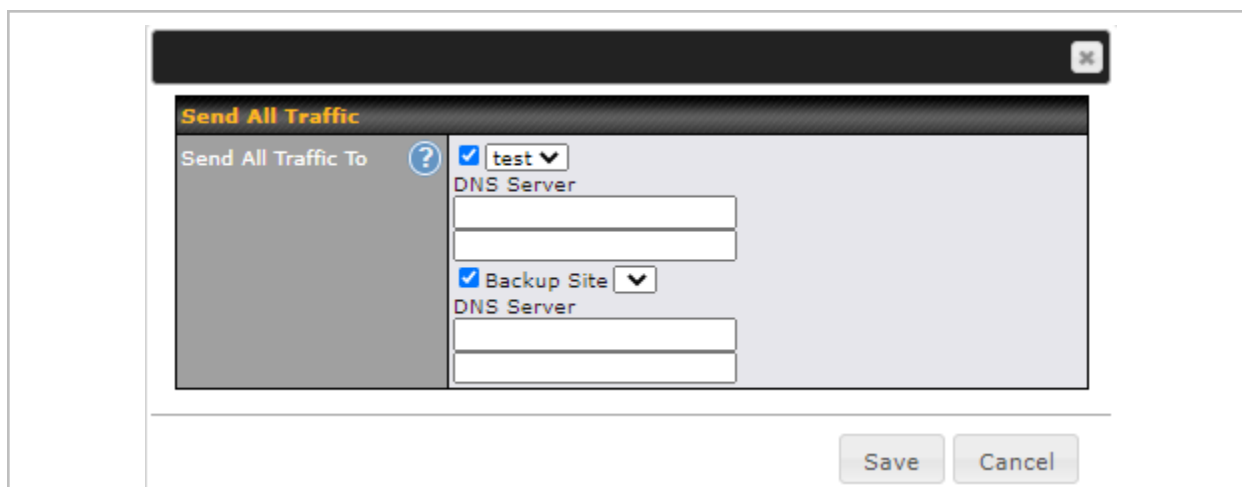
No PepVPN profile selected



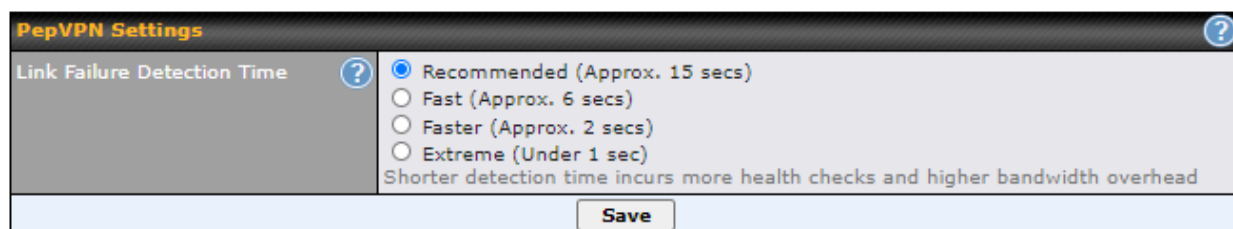
Send All Traffic To

This feature allows you to redirect all traffic to a specified PepVPN connection. Click the  button to select your connection and the following menu will appear:





You could also specify a DNS server to resolve incoming DNS requests. Check the box next to **Backup Site** to designate a backup SpeedFusion profile that will take over should the main PepVPN connection fail.



Link Failure Detection Time

Link Failure Detection Time

The bonded VPN can detect routing failures on the path between two sites over each WAN connection. Failed WAN connections will not be used to route VPN traffic. Health check packets are sent to the remote unit to detect any failure. The more frequently checks are sent, the shorter the detection time, although more bandwidth will be consumed.

When **Recommended** (default) is selected, a health check packet is sent every five seconds, and the expected detection time is 15 seconds.

When **Fast** is selected, a health check packet is sent every three seconds, and the expected detection time is six seconds.

When **Faster** is selected, a health check packet is sent every second, and the expected detection time is two seconds.

When **Extreme** is selected, a health check packet is sent every 0.1 second, and the expected detection time is less than one second.

6.4 Inbound Access

*Please note that the following settings will be available only when your access point is operating in **Router Mode**.

6.4.1 Port Forwarding

Peplink access points can act as a firewall that blocks, by default, all inbound access from the Internet. Inbound port forwarding rules can be defined at **Network > Inbound Access > Port Forwarding**.

Service	IP Address(es)	Server	Protocol
No Services Defined			
Add Service			

To define a new service, click **Add Service**.

Port Forwarding

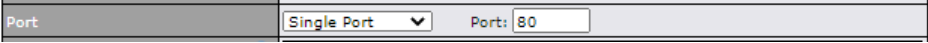
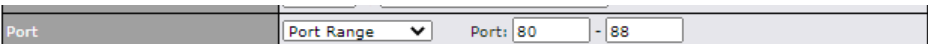
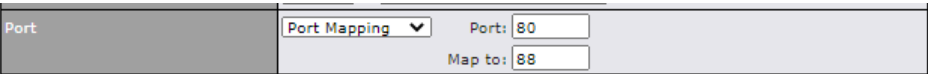
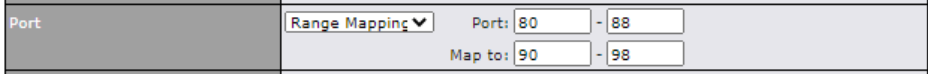
Enable	☒
Service Name	
Protocol	TCP ← :: Protocol Selection ::
Port	Any Port
Inbound IP Address(es) (Require at least one IP address)	Connection / IP Address(es) ☐ WAN 1 ☐ PepVPN
Server IP Address	

Save Cancel

Port Forwarding Settings

Enable

Check the box to enable the port forwarding profile for Inbound Access.

Service Name	This setting identifies the service to the system administrator. Valid values for this setting consist of only alphanumeric and underscore “_” characters.
Protocol	The Protocol setting, along with the Port setting, specifies the protocol of the service as TCP, UDP, ICMP, or IP. Traffic that is received by the Peplink access point via the specified protocol at the specified port(s) is forwarded to the LAN hosts specified by the server setting. Please see below for details on the Port and server settings. Alternatively, the Protocol Selection Tool drop-down menu can be used to automatically fill in the protocol and a single port number of common Internet services (e.g., HTTP, HTTPS, etc.). After selecting an item from the Protocol Selection Tool drop-down menu, the protocol and port number remain manually modifiable.
Port	The Port setting specifies the port(s) that correspond to the service, and can be configured to behave in one of the following manners:  Any Port: all traffic that is received by the Peplink router via the specified protocol is forwarded to the server specified by the server setting. For example, with IP Protocol set to TCP, and Port set to Any Port, all TCP traffic is forwarded to the configured servers.  Single Port: traffic that is received by the Peplink router via the specified protocol at the specified port is forwarded via the same port to the server specified by the server setting. For example, with IP Protocol set to TCP, Port set to Single Port, and the port set to 80, TCP traffic received on port 80 is forwarded to the configured servers via port 80.  Port Range: traffic that is received by the Peplink router via the specified protocol at the specified port range is forwarded via the same respective ports to the LAN hosts specified by the server setting. For example, with IP Protocol set to TCP, Port set to Port Range, and the port range set to 80-88, TCP traffic received on ports 80 through 88 is forwarded to the configured servers via the respective ports.  Port Mapping: traffic that is received by Peplink router via the specified protocol at the specified port is forwarded via a different port to the servers specified by the server setting. For example, with the IP Protocol set to TCP, the Port set to Port Mapping, the port set to 80, and the Map to Port set to 88, TCP traffic on port 80 is forwarded to the configured servers via port 88.  Range Mapping: traffic that is received by the Peplink router via the specified protocol at the specified port range is forwarded via a different port to the servers specified by the server setting.

Inbound IP Address(es)	This setting specifies the WAN connections and Internet IP address(es) from which the service can be accessed.
Server IP Address	This setting specifies the LAN IP address of the server that handles the requests for the service.

6.5 NAT Mapping

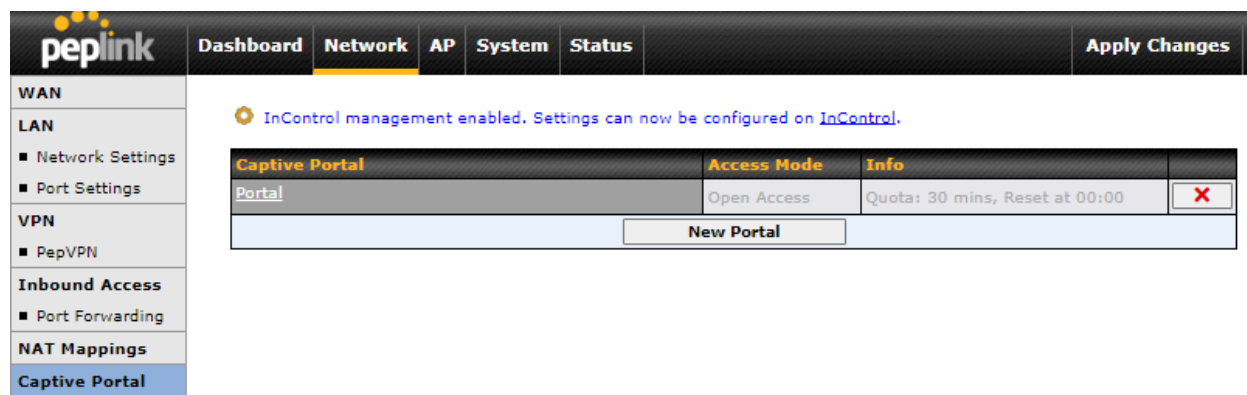
NAT mappings allow IP address mapping of all inbound and outbound NAT'd traffic to and from an internal client IP address. Settings to configure NAT mappings are located at **Network > NAT Mappings**.

*Please note that the following settings will be available only when your access point is operating in **Router Mode**.

To add a rule for NAT mappings, click **Add NAT Rule**.

NAT Mapping Settings	
LAN Client(s)	NAT mapping rules can be defined for a single LAN IP Address , an IP Range , or an IP Network .
Address	This is the IP address of the LAN host where the system will map the selected connection IP addresses.
Inbound Mappings	This section is to define which inbound IP addresses should be forwarded to the LAN Client(s) .
Outbound Mappings	This section is to define which IP addresses of each WAN should be used when an IP connection is made from the LAN host to the Internet.

6.6 Captive Portal



The screenshot displays the Peplink web interface. The top navigation bar includes 'Dashboard', 'Network', 'AP', 'System', 'Status', and 'Apply Changes'. The left sidebar lists 'WAN', 'LAN', 'VPN', 'Inbound Access', 'NAT Mappings', and 'Captive Portal'. The main content area shows a notification for 'InControl management enabled'. Below this, the 'Captive Portal' section features a table with columns 'Portal', 'Access Mode', and 'Info'. The table contains one entry with 'Portal' as a link, 'Open Access' as the access mode, and 'Quota: 30 mins, Reset at 00:00' as the info. A 'New Portal' button is located below the table.

The captive portal serves as a gateway that clients have to pass if they wish to access the Internet using your router. To configure the captive portal, navigate to **Network > Captive Portal**.

Captive Portal
✕

General Settings

Name	Portal		
Enable	☐		
Hostname	captive-portal.peplink.com	Default	
Access Mode	☒ Open Access ☐ User Authentication ☐ External Server		

Portal Access Settings

Access Quota	30 mins (0: Unlimited) 0 MB (0: Unlimited)		
Quota Reset Time	☒ Daily at 00 :00 ☐ 1440 minutes after quota reached		
Inactive Timeout	0 minutes (0: No Timeout)		
Allowed Networks	Domain Name / IP Address / Network +		
Allowed Clients	MAC / IP Address / Host Identifier +		
Splash Page	☒ Built-in ☐ External, URL: http://		
Popup Handling	☐ Bypass Popup (Redirection only takes place on normal browser) ☐ Automatically show splash page on Safari for Apple (iOS / macOS) devices		
Logout Hostname	(Not configured)		

Click [here](#) to preview / customize built-in splash page

Captive Portal Settings	
Name	Enter a name for the Captive Portal Profile.
Enable	Check the Enable box to turn on your access point's built-in captive portal functionality.
Hostname	To customize the portal's form submission and redirection URL, enter a new URL in this field.
Access Mode	Open Access allows clients to freely access your router. User Authentication forces your clients to authenticate before accessing your router. External Server uses the captive portal with HotSpotSystem or CoovaChilli. As described in the following knowledgebase article: https://forum.peplink.com/t/using-hotspotsystem-wi-fi-on-Peplink-max-routers/
User Authentication	This authenticates your clients through a RADIUS server. After selecting this option, you will see the following fields:

RADIUS Settings	Primary Server	Secondary Server
	You may click here to define RADIUS Server Authentication profile, or you may go to RADIUS Server page to define multiple profiles	
Authentication Host		
Authentication Port	1812	1812
Authentication Secret	 ☒ Hide Characters	 ☒ Hide Characters
	You may click here to define RADIUS Server Accounting profile, or you may go to RADIUS Server page to define multiple profiles	
Accounting Host		
Accounting Port	1813	1813
Accounting Secret	 ☒ Hide Characters	 ☒ Hide Characters
CoA-DM	☐	
Accounting Interim Interval		
NAS-Identifier	Device Name	

Fill in the necessary information to complete your connection to the server and enable authentication.

Access Quota	Enter a value in minutes to limit access time on a given login or enter 0 to allow unlimited use time on a single login. Likewise, enter a value in MB for the total bandwidth allowed or enter 0 to allow unlimited bandwidth on a single login.
Quota Reset Time	This menu determines how your usage quota resets. Setting it to Daily will reset it at a specified time every day. Setting a number of minutes after quota reached establishes a timer for each user that begins after the quota has been reached.
Inactive Timeout	Enter a value in minutes to logout following the specified period of inactivity or enter 0 to disable inactivity logouts.
Allowed Networks	To whitelist a network, enter the domain name / IP address here and click the To delete an existing network from the list of allowed networks, click the button next to the listing.
Allowed Clients	To whitelist a client, enter the MAC address / IP address here and click the To delete an existing client from the list of allowed clients, click the button next to the listing.
Splash Page	Here, you can choose between using the Peplink access point's built-in captive portal or redirecting clients to a URL that you define.
Popup Handling	Configurable options for popup handling: - Bypass popup (redirection only takes place on a normal browser) - Automatically show splash page on Safari for Apple (iOS / macOS) devices
Logout Hostname	A hostname that can be used to logout captive portal when being accessed on the browser.
Customize splash	Click on the provided link in the Captive Portal Profile to customize the splash page. A

page

new browser tab with a WYSIWYG editor of the splash page will be opened. To edit the content, switch Edit Mode on and select the corresponding elements to edit.

Captive Portal



☒ Use default Logo Image

No file chosen

NOTE: Size max 512KB. Supported images types: JPEG, PNG and GIF.

EMPTY STRING

☒ I have read and agree to the [terms and conditions](#)

?

You must accept the terms and conditions before you can proceed

Agree

Powered by Pepwave.

Portal Configuration

Show Quota Status	☒
Custom Landing Page	☐

Page:

Login

Login

TNC

Success

Quota reached

Edit mode **ON**

?

Save

6.7 QoS

*Please note that the following settings will be available only when your access point is operating in **Router Mode**.

6.7.1 User Group

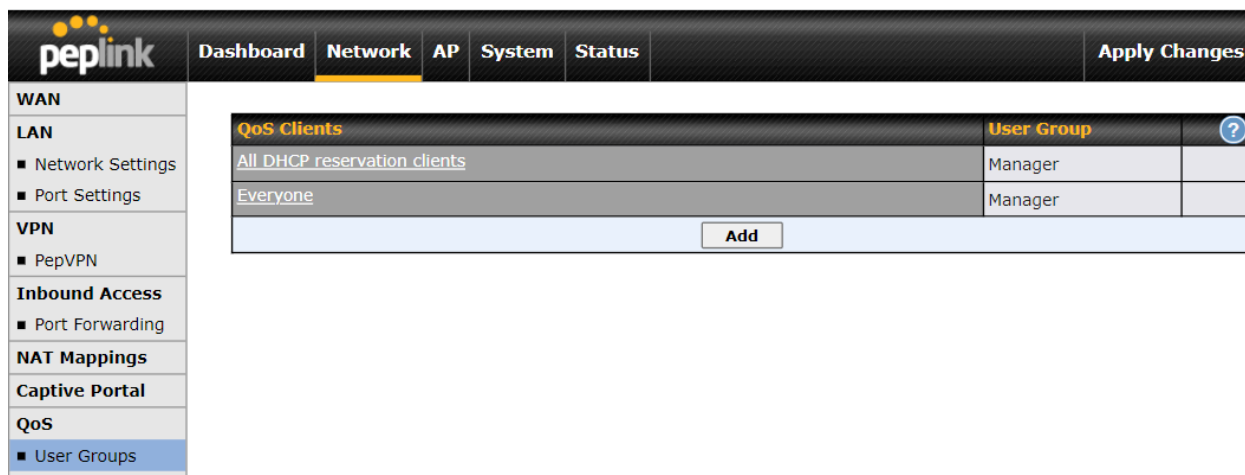
*Please note that the following settings are available only for **AP One Rugged (HW2)**.

LAN and PPTP clients can be categorized into three user groups - **Manager**, **Staff**, and **Guest**. This table allows you to define rules and assign client IP addresses or subnets to a user group. You can apply different bandwidth and traffic prioritization policies on each user group in the **Bandwidth Control and Application** sections.

The table is automatically sorted, and the table order signifies the rules' precedence. The smaller and more specific subnets are put towards the top of the table and have higher precedence; larger and less specific subnets are placed towards the bottom.

Click the Add button to define clients and their user group. Click the  button to remove the defined rule.

Two default rules are pre-defined and put at the bottommost. They are **All DHCP reservation clients** and **Everyone**, and they cannot be removed. **All DHCP reservation clients** represents the LAN clients defined in the DHCP Reservation table in the LAN settings page. **Everyone** represents all clients that are not defined in any rule above. Click on a rule to change its group.



The screenshot shows the Peplink web interface with the 'Network' tab selected. The left sidebar contains a menu with categories: WAN, LAN, VPN, Inbound Access, NAT Mappings, Captive Portal, and QoS. Under the QoS category, 'User Groups' is selected. The main content area displays a table titled 'QoS Clients' with two columns: 'QoS Clients' and 'User Group'. The table contains two rows: 'All DHCP reservation clients' and 'Everyone', both assigned to the 'Manager' user group. An 'Add' button is located at the bottom of the table. A red 'X' icon is visible in the top right corner of the table area.

QoS Clients	User Group
All DHCP reservation clients	Manager
Everyone	Manager

Buttons: Add

Add User Group

Grouped by

?

IP Address

User Group

?

Manager

Save

Cancel

Add / Edit User Group	
Subnet / IP Address	From the drop-down menu, choose whether you are going to define the client(s) by an IP Address or a Subnet. If IP Address is selected, enter a name defined in DHCP reservation table or a LAN client's IP address. If Subnet is selected, enter a subnet address and specify its subnet mask.
User Group	This field is to define which User Group the specified subnet / IP address belongs to.

Once users have been assigned to a user group, their internet traffic will be restricted by rules defined for that particular group. Please refer to the following two sections for details.

6.7.2 Bandwidth Control

7.7.2.1 Group Bandwidth Reservation

*Please note that the following settings are available only for **AP One Rugged (HW2)**.

This section is to define how much minimum bandwidth will be reserved to each user group when a WAN connection is in **full load**. When this feature is enabled, a slider with two indicators will be shown. You can move the indicators to adjust each group's weighting. The lower part of the table shows the corresponding reserved download and uploads bandwidth value of each connection.

By default, **50%** of bandwidth has been reserved for Manager, **30%** for Staff, and **20%** for Guest.

Group Bandwidth Reservation

Enable

☒

	Manager	Staff	Guest
Bandwidth %	50%	30%	20%
WAN 1	500.00 Mbps 500.00 Mbps	300.00 Mbps 300.00 Mbps	200.00 Mbps 200.00 Mbps

7.7.2.2 Individual Bandwidth Limit

The default download and upload limits are set to unlimited (set as 0). This can be changed as necessary to restrict the speeds to individual devices connected to the router, no matter if they are wired or wireless. Note that this limit is applied to all connected devices.

The screenshot shows the PEPWAVE web interface with the 'Network' tab selected. The left sidebar lists various settings, with 'Bandwidth Control' highlighted under the 'QoS' section. The main content area displays the 'Individual Bandwidth Limit' configuration. It includes a checkbox for 'Enable' which is checked. Below this, there are input fields for 'Download' and 'Upload' bandwidth limits, both currently set to '0' Mbps. A note indicates '(0: Unlimited)'. A 'Save' button is located at the bottom right of the configuration area.

6.7.3 Application

You can choose whether to apply the same prioritization settings to all user groups or customize the settings for each group.

The screenshot shows the peplink web interface with the 'Network' tab selected. The left sidebar lists various settings, with 'Port Settings' highlighted under the 'LAN' section. The main content area displays the 'Application Prioritization' configuration. It includes two radio button options: 'Apply same settings to all users' (which is selected) and 'Customize'. A help icon (?) is visible in the top right corner of the configuration area.

Define the priority level of selected applications. Available priorities are **↑High**, **— Normal**, and **↓Low**. Applications not defined in the table are assigned a "Normal" priority level.

Peplink access points can detect various application traffic by inspecting the packets' content. Select an application by choosing a supported application, or by manually defining a custom application. The priority preference of supported applications is placed at the top of the table. Custom applications are at the bottom.

Application	Priority	
No Applications Defined		
Add		

Click the **Add** button to define a custom application. Click the button in the Action column to delete the custom application in the corresponding row.

Application	Manager	Staff	Guest	
All Supported Streaming Applications	↑ High ✓	— Normal ▼	↓ Low ▼	
Apple Game Center	— Normal ▼	↓ Low ▼	↑ High ✓	
MySQL	↓ Low ▼	↑ High ✓	— Normal ▼	
Add				

When **Supported Applications** is selected, the Peplink access point will inspect network traffic and prioritize the selected applications. Alternatively, you can select **Custom Applications** and define the application by providing the protocol, scope, port number, and DSCP value.

Add / Edit Application

Type	☒ Supported Applications ☐ Custom Applications
Category	Database ▼
Application	All Database Applications ▼

OK
Cancel

DSL / Cable Optimization

DSL/Cable Optimization

Enable	☐
--------	--------------------------

DSL/cable-based WAN connections normally have their upload bandwidth set lower than their download bandwidth. When a DSL/cable circuit's uplink is congested, the download bandwidth will be affected. Users will not be able to download data at full speed until the uplink becomes less congested. The **DSL/Cable Optimization** can relieve such issues. When it is enabled, the download speed will be less affected by the upload traffic.

PepVPN Traffic Optimization

PepVPN Traffic Optimization

Enable	☐
--------	--------------------------

Check the box to enable PepVPN traffic to have the highest priority when the WAN is congested.

6.8 Misc. Settings

6.8.1 Radius Server

RADIUS Server settings are located at **Network > Misc. Settings > RADIUS Server**.

Click **New Profile** to display the following screen:

Authentication Server	
Name	This field is for specifying a name to represent this profile.
Host	Specifies the IP address or hostname of the RADIUS server host.
Port	This setting specifies the UDP destination port for authentication requests. By default, the port number is 1812.
Secret	This field is for entering the secret key for communicating to the RADIUS server.

Accounting Server

Name	
Host	
Port	1813
Secret	☒ Hide Characters

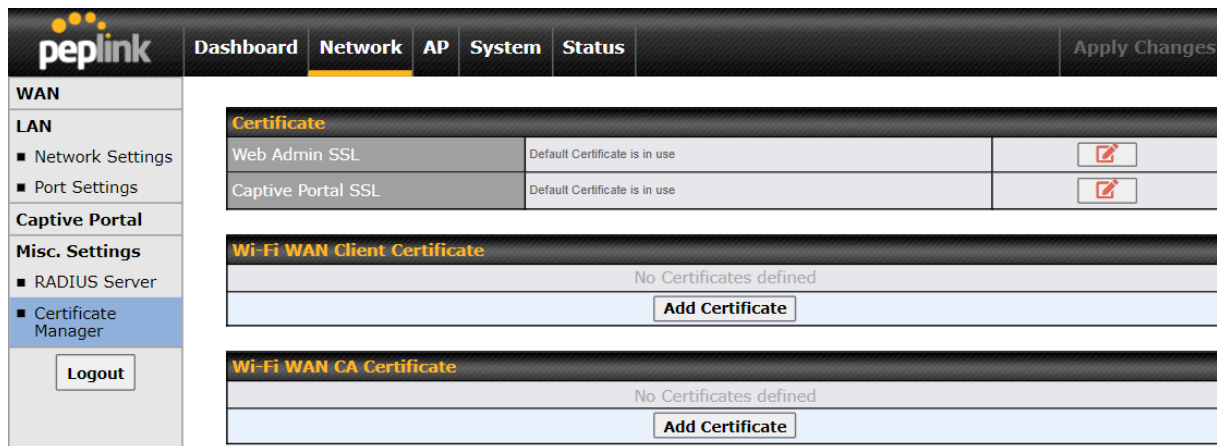
Save

Cancel

Accounting Server

Name	This field is for specifying a name to represent this profile.
Host	Specifies the IP address or hostname of the RADIUS server host.
Port	This setting specifies the UDP destination port for authentication requests. By default, the port number is 1813.
Secret	This field is for entering the secret key for communicating to the RADIUS server.

6.8.2 Certificate Manager



Certificate		
Web Admin SSL	Default Certificate is in use	
Captive Portal SSL	Default Certificate is in use	

Wi-Fi WAN Client Certificate	
No Certificates defined	
Add Certificate	

Wi-Fi WAN CA Certificate	
No Certificates defined	
Add Certificate	

This section allows for certificates to be assigned to the Web Admin SSL, Captive Portal SSL and Wi-Fi WAN (Client and CA).

The following knowledge base article describes how to create self-signed certificates and import it to a Peplink Product.

<https://forum.peplink.com/t/how-to-create-a-self-signed-certificate-and-import-it-to-a-peplinkproduct/>

6.8.3 GPIO

The GPIO and Ignition sensing feature are supported by AP One Rugged (HW2).

GPIO (General Purpose Input/Output) and Ignition Sensing are specifically designed for vehicular, IoT, and industrial deployments. For more information, kindly refer to the link below:

https://download.peplink.com/resources/gpio_and_ignition_sensing_guide.pdf

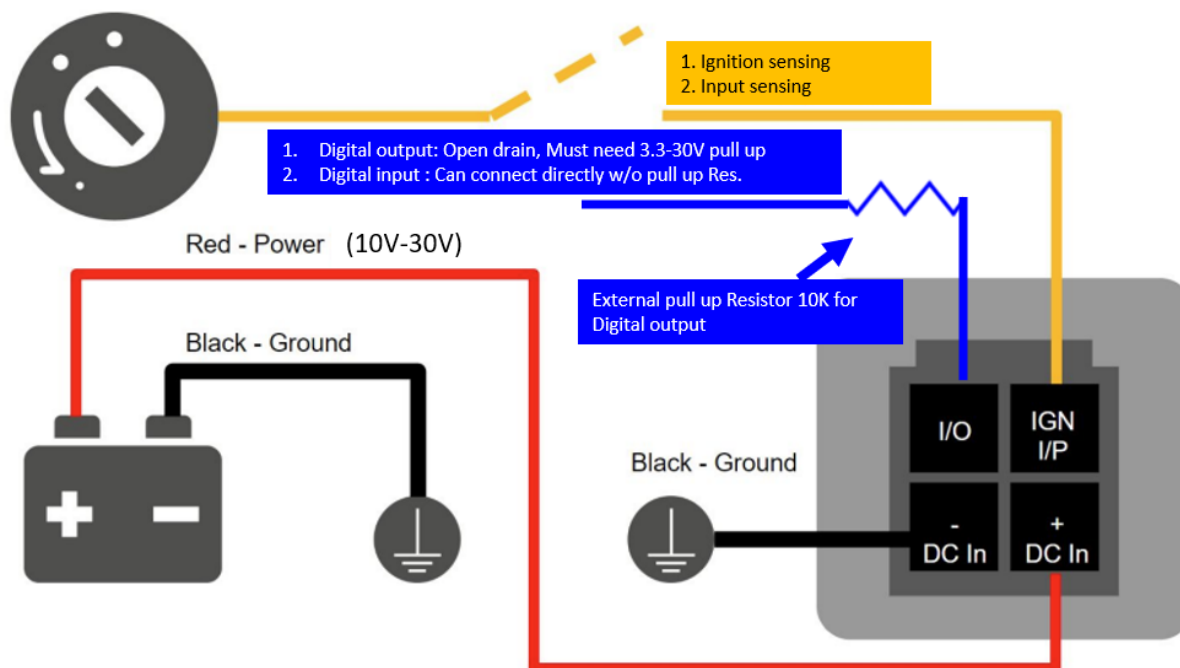
Ignition Sensing installation

Function			Colour Wire
	I/O	optional *	Brown
	IGN I/P	connected to positive feed on the ignition **	Orange
	DC IN -	connected to permanent negative feed (ground)	Black
	DC IN +	connected to permanent positive feed (power)	Red

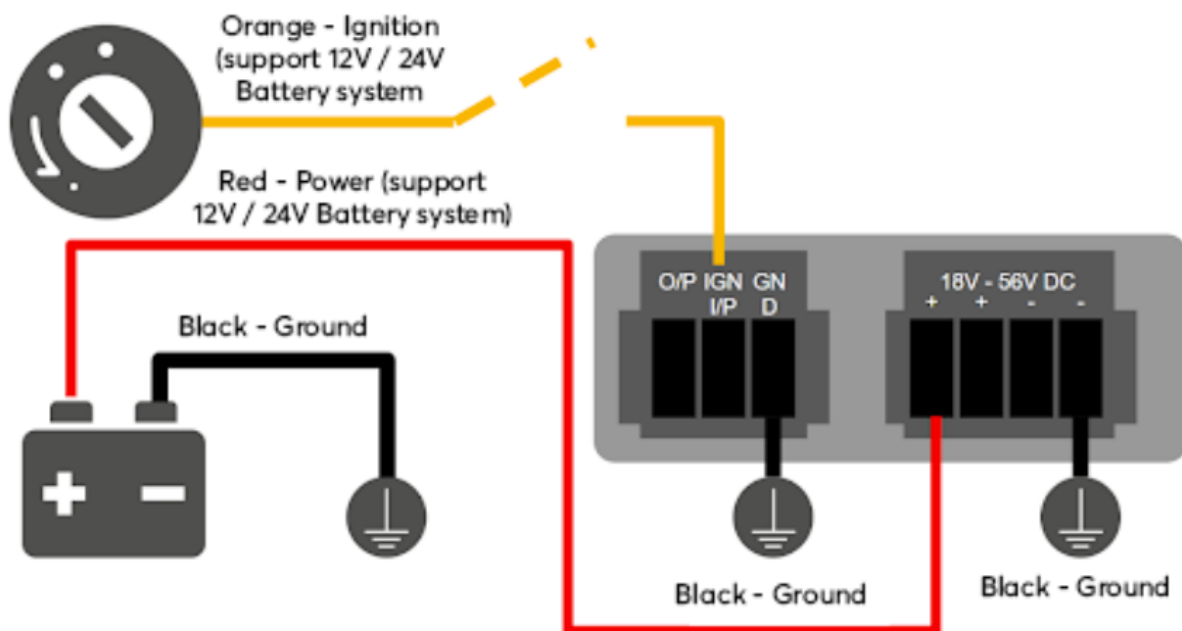
* Currently not functional; will be used for additional features in future firmware.

** Connecting IGN I/P is optional and is needed only if the Ignition Sensing feature is configured.

Connectivity diagram for devices with 4-pin connector



Connectivity diagram for devices with terminal block connection



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

IGN I/P	
Enable	☒
Type	Digital Input ▾
Mode	Input Sensing ▾
Delay	seconds

The O/P (connected to the I/O pin on a 4 pin connector) can be configured as a digital input, a digital output, or an analog 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).

Digital Output – when there is a healthy WAN connection, the output pin is marked as ‘High’ (on). Otherwise, it will be marked as ‘Low’ (off).

a.) Digital output:

Open drain for IO output. It is required to add an external pull up resistor of 10K for 3.3-30V 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

I/O	
Enable	☒
Type	Digital Output ▾
Mode	Toggle Low ▾

Note: The Digital Output state (on/off) upon rebooting the device may vary depending on the model, eg. MAX BR1 MK2 = Persistent; MAX Transit Mini with ContentHub = Reset to default, etc.

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

As of firmware 3.9.4, you can now configure a custom name for GPIO.

Name: Name to be shown in the Event Log

State Name: Tag name that represents the GPIO state to be shown in the Event Log

IGN I/P	
Name	IGN I/P A
Enable	☒
Type	Digital Input
Mode	Input Sensing
State Name	High: HIGH Low: LOW
Delay	seconds

I/O	
Name	I/O 2
Enable	☒
Type	Digital Input
Mode	Input Sensing
State Name	High: HIGH Low: LOW
Delay	seconds

Save

7 AP Tab

7.1 AP

Use the controls on the **AP** tab to set the wireless SSID, AP settings and Mesh, as well as wireless distribution system (WDS) settings.

7.1.1 Wireless SSID

PEPWAVE	
Dashboard	Network
AP	System
Status	
Apply Changes	
⚙ InControl management enabled. Wireless SSID can now be configured on InControl.	
Wireless SSID	Security Policy
PEPWAVE_2E8A	WPA2 - Personal
New SSID	

Wireless network settings, including the name of the network (SSID) and security policy, can be defined and managed in this section.

Click **New SSID** to create a new network profile, or click the existing network profile to modify its settings.

SSID Settings	
SSID	
Enable	Always on ▼
VLAN	(0: Untagged) ☐ Use VLAN Pool
Broadcast SSID	☒
Data Rate	☒ Auto ☐ Fixed ☐ Minimum
Multicast Filter	☐
Multicast Rate	MCS8/MCS0/6M ▼
IGMP Snooping	☐
Layer 2 Isolation	☐
Maximum number of clients	2.4 GHz: 5 GHz: (0: Unlimited)
Band Steering	? Disable ▼

SSID Settings	
SSID	This setting specifies the router's SSID that Wi-Fi clients will see when scanning for Wi-Fi signals..
Enable	Click the drop-down menu to choose predefined schedules as your starting point. Please note that upon selection, previous changes on the schedule map will be deleted.
VLAN	This setting specifies the VLAN ID to be tagged on all outgoing packets generated from this wireless network (i.e. packets that travel from the Wi-Fi segment through your access point to the ethernet segment via the LAN port). If 802.1x is enabled and a per-user VLAN ID is specified in the authentication reply from the Radius server, then the value specified by the default VLAN ID will be overridden. The default value of this setting is 0, which means that VLAN tagging is disabled (instead of tagged with zero). If Use VLAN Pool is enabled, enter the VLAN pool value specified in VLAN.
Broadcast SSID	This setting specifies whether or not Wi-Fi clients can scan the SSID of this wireless network. Broadcast SSID is enabled by default.
Data Rate	Select Auto to allow your access point to set the data rate automatically, or select Fixed or Minimum to choose a set rate from a drop-down menu.
Multicast Filter	This setting enables the filtering of multicast network traffic to the wireless SSID.
Multicast Rate	This setting specifies the transmit rate to be used for sending multicast network traffic.

IGMP Snooping	To allow your access point to convert multicast traffic to unicast traffic for associated clients, select this option.
Layer 2 Isolation	Layer 2 refers to the second layer in the ISO Open System Interconnect model. When this option is enabled, it will block communication between Wi-Fi clients within the same VLAN, SSID or subnet, as a security measure that best suits a company Guest/Visitor Wi-Fi access scenario. Do refer to this link (https://forum.peplink.com/t/lan-isolation-with-balance30-and-ap-one-ac-minihelp-needed/3914/4) for visual illustration of the feature. By default, the setting is disabled.
Maximum Number of Clients	The maximum number of clients that can simultaneously connect to your access point, or enter 0 to allow unlimited Wi-Fi clients.
Band Steering	This setting, shown below, allows you to reduce 2.4 GHz band overcrowding, AP with band steering steers clients capable of 5 GHz operation to 5 GHz frequency. Force - Clients capable of 5 GHz operation are only offered with 5 GHz frequency. Prefer - Clients capable of 5 GHz operation are encouraged to associate with 5 GHz frequency. If the clients insist to attempt on 2.4 GHz frequency, 2.4 GHz frequency will be offered. Default: Disable Band Steering Disable ▾

Security Settings

Security Policy

Open (No Encryption) ▾

Security Settings

Security Policy

This setting configures the wireless authentication and encryption methods. Available options are:

- Open (No Encryption)
- Enhanced Open (OWE)
- WPA3 - Personal (AES:CCMP)
- WPA3 - Enterprise (AES:CCMP)
- WPA2/WPA3 - Personal (AES:CCMP)
- WPA2 - Personal (AES:CCMP)
- WPA2 - Enterprise (AES:CCMP)
- WPA/WPA2 - Personal (TKIP/AES: CCMP)
- WPA/WPA2 - Enterprise (TKIP/AES: CCMP)

To allow any Wi-Fi client to access your AP without authentication, select **Open (No Encryption)**. Details on each of the available authentication methods follow.

Security Settings	
Security Policy	Enhanced Open (OWE) ▼
Transition Mode	☒

Enhanced Open (OWE)

Transition Mode

With the option enabled, legacy clients will be able to connect in Open mode. With the option disabled, legacy clients will not be able to connect. OWE-supported clients will always connect in OWE mode.

Security Settings	
Security Policy	WPA3 - Personal ▼
Encryption	AES:CCMP
Shared Key	 ☒ Hide Characters
Fast Transition	☐

WPA3 – Personal

Shared Key

Enter a passphrase of between 8 and 63 alphanumeric characters to create a passphrase used for data encryption and authentication. Click **Hide / Show Characters** to toggle visibility.

Fast Transition

Fast Transition
[802.11r] When this option is ticked, the transition process of a mobile client is improved as it moves between access points.

Security Settings	
Security Policy	WPA3 - Enterprise ▼
Encryption	AES:CCMP
802.1X Version	☒ v1 ☐ v2
Fast Transition	☐

WPA3 – Enterprise

802.1X Version

Choose **v1** or **v2** of the 802.1x EAPOL. When **v1** is selected, both v1 and v2 clients can associate with the access point. When **v2** is selected, only v2 clients can associate with the access point. Most modern wireless clients support v2. For stations that do not support v2, select **v1**. The default is **v2**.

Fast Transition

Fast Transition
[802.11r] When this option is ticked, the transition process of a mobile client is improved as it moves between access points.

Security Settings	
Security Policy	WPA2/WPA3 - Personal ▼
Encryption	AES:CCMP
Shared Key	 ☒ Hide Characters
Management Frame Protection	Default (Optional) ▼
Fast Transition	☐

WPA2/WPA3 – Personal

Shared Key

Enter a passphrase of between 8 and 63 alphanumeric characters to create a passphrase used for data encryption and authentication. Click **Hide / Show Characters** to toggle visibility.

Management Frame Protection

This feature protects stations against forged management frames spoofed from other devices. Frames that are protected include Disassociation, Deauthentication and QoS Action.

Fast Transition

Fast Transition
[802.11r] When this option is ticked, the transition process of a mobile client is improved as it moves between access points.

Security Settings	
Security Policy	WPA2 - Personal ▼
Encryption	AES:CCMP
Shared Key	 ☒ Hide Characters
Management Frame Protection	Default (Disabled) ▼
Fast Transition	☐

WPA2 – Personal

Shared Key

Enter a passphrase of between 8 and 63 alphanumeric characters to create a passphrase used for data encryption and authentication. Click **Hide / Show Characters** to toggle visibility.

Management

This feature protects stations against forged management frames spoofed from other devices. Frames that are protected include Disassociation, Deauthentication and QoS

Frame Protection	Action.
Fast Transition	Fast Transition [802.11r] When this option is ticked, the transition process of a mobile client is improved as it moves between access points.

Security Settings	
Security Policy	WPA2 - Enterprise ▼
Encryption	AES:CCMP
802.1X Version	☒ v1 ☐ v2
Management Frame Protection	Default (Disabled) ▼
Fast Transition	☐

WPA2 – Enterprise	
802.1X Version	Choose v1 or v2 of the 802.1x EAPOL. When v1 is selected, both v1 and v2 clients can associate with the access point. When v2 is selected, only v2 clients can associate with the access point. Most modern wireless clients support v2. For stations that do not support v2, select v1 . The default is v2 .
Management Frame Protection	This feature protects stations against forged management frames spoofed from other devices. Frames that are protected include Disassociation, Deauthentication and QoS Action.
Fast Transition	Fast Transition [802.11r] When this option is ticked, the transition process of a mobile client is improved as it moves between access points.

Security Settings	
Security Policy	WPA/WPA2 - Personal ▼
Encryption	TKIP/AES:CCMP
Shared Key	 ☒ Hide Characters
Management Frame Protection	Default (Disabled) ▼

WPA/WPA2 – Personal	
Shared Key	Enter a passphrase of between 8 and 63 alphanumeric characters to create a passphrase used for data encryption and authentication. Click Hide / Show Characters to toggle visibility.
Management	This feature protects stations against forged management frames spoofed from other devices. Frames that are protected include Disassociation, Deauthentication and QoS

Frame Protection Action.

Security Settings	
Security Policy	WPA/WPA2 - Enterprise ▼
Encryption	TKIP/AES:CCMP
802.1X Version	☒ v1 ☐ v2
Management Frame Protection	Default (Disabled) ▼

WPA/WPA2 – Enterprise	
802.1X Version	Choose v1 or v2 of the 802.1x EAPOL. When v1 is selected, both v1 and v2 clients can associate with the access point. When v2 is selected, only v2 clients can associate with the access point. Most modern wireless clients support v2. For stations that do not support v2, select v1 . The default is v2 .
Management Frame Protection	This feature protects stations against forged management frames spoofed from other devices. Frames that are protected include Disassociation, Deauthentication and QoS Action.

Access Control	
Restricted Mode	Accept all except listed ▼
MAC Address List	Connected clients:

Access Control	
Restricted Mode	The settings allow the administrator to control access using Mac address filtering. Available options are None , Deny all except listed , Accept all except listed , and RADIUS MAC Authentication .
MAC Address List	Connections coming from the MAC addresses in this list will be either denied or accepted based on the option selected in the previous field.

RADIUS Settings	Primary Server	Secondary Server
	You may click here to define RADIUS Server Authentication profile, or you may go to RADIUS Server page to define multiple profiles	
Authentication Host		
Authentication Port	1812	1812
Authentication Secret	 ☒ Hide Characters	 ☒ Hide Characters
	You may click here to define RADIUS Server Accounting profile, or you may go to RADIUS Server page to define multiple profiles	
Accounting Host		
Accounting Port	1813	1813
Accounting Secret	 ☒ Hide Characters	 ☒ Hide Characters
NAS-Identifier	Device Name	

RADIUS Server Settings	
Host	Enter the IP address of the primary RADIUS server and, if applicable, the secondary RADIUS server.
Secret	Enter the RADIUS shared secret for the primary server and, if applicable, the secondary RADIUS server.
Authentication Port	Enter the UDP authentication port(s) used by your RADIUS server(s) or click the Default button to enter 1812 .
Accounting Port	Enter the UDP accounting port(s) used by your RADIUS server(s) or click the Default button to enter 1813 .
NAS-Identifier	Information added to access requests to identify the NAS. Select Device Name, LAN MAC Address, Device Serial Number or enter a Custom Value When the NAS ID is not defined, the Device Name will be used as the NAS ID in RADIUS requests.

Guest Protect			
Block All Private IP	☐		
Custom Subnet	Network	Subnet Mask	
		255.255.255.0 (/24) ▼	+
Block Exception	Network	Subnet Mask	
		255.255.255.0 (/24) ▼	+

Guest Protect	
Block All Private IP	Check this box to block access from the Private IP.
Custom Subnet	To specify a subnet to block, enter the IP address and choose a subnet mask from the drop-down menu. To add the blocked subnet, click + . To delete a blocked subnet, click X .
Block Exception	To create an exception to a blocked subnet (above), enter the IP address and choose a subnet mask from the drop-down menu. To add the exception, click + . To delete an exception, click X .

Bandwidth Management	
Upstream Limit	kbps (0:Unlimited)
Downstream Limit	kbps (0:Unlimited)
Client Upstream Limit	kbps (0:Unlimited)
Client Downstream Limit	kbps (0:Unlimited)

Bandwidth Management	
Upstream Limit	Enter a value in kbps to limit the wireless network's upstream bandwidth. Enter 0 to allow unlimited upstream bandwidth.
Downstream Limit	Enter a value in kbps to limit the wireless network's downstream bandwidth. Enter 0 to allow unlimited downstream bandwidth.
Client Upstream Limit	Enter a value in kbps to limit connected clients' upstream bandwidth. Enter 0 to allow unlimited upstream bandwidth.
Client Downstream Limit	Enter a value in kbps to limit connected clients' downstream bandwidth. Enter 0 to allow unlimited downstream bandwidth.

Firewall Settings			
Firewall Mode	Lockdown - Block all except... ▼		
Firewall Exceptions	Name	Type	Item
	No Active Exceptions		
	New Rule		

Firewall Settings	
Firewall Mode	Choose Flexible – Allow all except... or Lockdown – Block all except... to turn on the firewall, then create rules for the firewall exceptions by clicking New Rule. See the discussion below for details on creating a firewall rule. To delete a rule, click the associated  button. To turn off the firewall, select Disable.

Firewall Rule	
Name	
Type	Port ▼
Protocol	TCP ▼ ← :: Protocol Selection :: ▼
Port	Any Port ▼

[OK](#)
[Cancel](#)

Firewall Rule	
Name	Enter a descriptive name for the firewall rule in this field.
Type	Choose Port , IP Network , MAC Address or Domain Name to allow or deny traffic from any of those identifiers. Depending on the option chosen, the following fields will vary.
Port	Choose TCP or UDP from the Protocol drop-down menu to allow or deny traffic using either of those protocols. From the Port drop-down menu, choose Any Port to allow or deny TCP or UDP traffic on any port. Choose Single Port and then enter a port number in the provided field to allow or block TCP or UDP traffic from that port only. You can also choose Port Range and enter a range of ports in the provided fields to allow or deny TCP or UDP traffic from the specified port range.
IP Network	If you have chosen IP Network as your firewall rule type, enter the IP address and subnet mask identifying the subnet to allow or deny.
MAC Address	If you have chosen MAC Address as your firewall rule type, enter the MAC address identifying the machine to allow or deny.
Domain Name	If you have chosen Domain Name as your firewall rule type, enter the Domain Name identifying the machine to allow or deny.

7.1.2 Wireless Mesh

Mesh support enables an access point (AP) to connect wirelessly to other wired mesh APs, providing redundancy in the event of AP failure. Mesh support is available for Wi-Fi networks 802.11ac (Wi-Fi 5) and above.

Please note that the AP's Mesh settings need to match the Mesh ID and Shared Key of the selected frequency band in order for the AP to join the network.

The screenshot shows the PEPWAVE web interface. The top navigation bar includes 'Dashboard', 'Network', 'AP', 'System', and 'Status'. The 'AP' tab is selected. On the left sidebar, 'Wireless SSID', 'Settings', 'Mesh', and 'WDS' are listed, with 'Mesh' being the active selection. The main content area shows a table with two columns: 'Mesh' and 'Frequency Band'. The table currently has one row with the text 'No Mesh profile' and an 'Add' button.

To create a new Wireless Mesh profile, go to **AP > Mesh**, and click **Add**.

The screenshot shows the 'Mesh Settings' dialog box. It has a title bar with 'Mesh Settings' and a close button. The form contains the following fields:

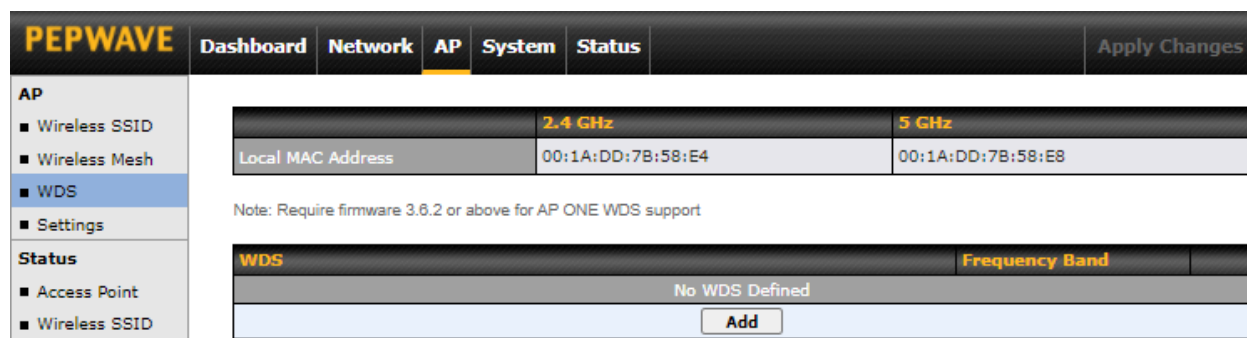
- Mesh ID**: A text input field.
- Enable**: A checkbox.
- Frequency**: Radio buttons for '2.4GHz' (selected) and '5GHz'.
- Shared Key**: A password input field with a 'Hide / Show Passphrase' toggle.

 At the bottom right, there are 'Save' and 'Cancel' buttons.

Mesh Settings	
Mesh ID	Enter a name to represent the Mesh profile.
Enable	Check the box to enable the Mesh Profile.
Frequency	Select the 2.4GHz or 5GHz frequency to be used.
Shared Key	Enter the shared key in the text field. Please note that it needs to match the shared keys of the other APs in the Mesh. Click Hide / Show Passphrase to toggle visibility.

7.1.3 WDS

A wireless distribution system (WDS) provides a way to link access points together when wired or cabled connections are not feasible or desirable. A WDS can also extend wireless network coverage for wireless clients. Please note that your access point's channel setting should not be set to **Auto** when using WDS.

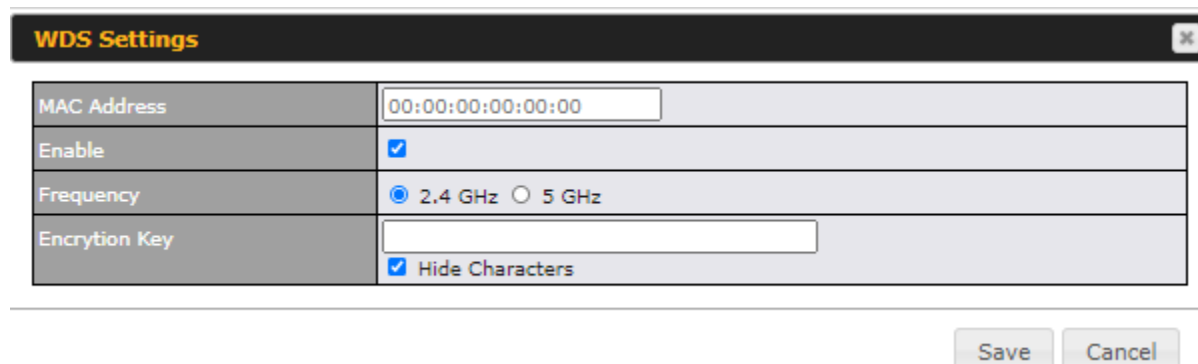


	2.4 GHz	5 GHz
Local MAC Address	00:1A:DD:7B:58:E4	00:1A:DD:7B:58:E8

Note: Require firmware 3.6.2 or above for AP ONE WDS support

WDS	Frequency Band
No WDS Defined	
Add	

To create a new WDS, go to **AP > WDS**, and click **Add**.



MAC Address	00:00:00:00:00:00
Enable	☒
Frequency	☒ 2.4 GHz ☐ 5 GHz
Encryption Key	☒ Hide Characters

WDS	
MAC Address	Enter the MAC address of the access point with which to form a WDS link.
Enable	Check this box to enable WDS.
Frequency	Select the frequency (2.4GHz or 5GHz) for WDS peer connection.
Encryption	Select AES to enable encryption for WDS peer connections. Selecting None disables encryption.

7.1.4 Settings

Basic access point operation settings, such as the protocol and channels used, as well as scanning intervals and other advanced settings can be defined and managed in this section.

AP Settings	
SSID	☒ 2.4 GHz ☒ 5 GHz ☒ PEPLINK
Operating Country	United States
	2.4 GHz 5 GHz
Protocol	802.11ng 802.11n/ac
Channel Width	Auto Auto
Channel	Auto Edit Channels: 1 2 3 4 5 6 7 8 9 10 11 Channels: 36 40 44 48 149 153 157 161 165
Auto Channel Update	Daily at Clear All ☐ 00:00 ☐ 01:00 ☐ 02:00 ☒ 03:00 ☐ 04:00 ☐ 05:00 ☐ 06:00 ☐ 07:00 ☐ 08:00 ☐ 09:00 ☐ 10:00 ☐ 11:00 ☐ 12:00 ☐ 13:00 ☐ 14:00 ☐ 15:00 ☐ 16:00 ☐ 17:00 ☐ 18:00 ☐ 19:00 ☐ 20:00 ☐ 21:00 ☐ 22:00 ☐ 23:00 ☒ Wait until no active client associated
Output Power	Custom 20 dBm
Client Signal Strength Threshold	0 -95 dBm (0: Unlimited)
Maximum number of clients	0 (0: Unlimited)
Discover Nearby Networks	☒ Note: Feature will be automatically turned on with Auto Channel / Dynamic Output Power
Beacon Rate	1 Mbps
Beacon Interval	100 ms
DTIM	1
RTS Threshold	0
Fragmentation Threshold	0 (0: Disable)
Distance / Time Converter	4050 m Note: Input distance for recommended values
Slot Time	☐ Auto ☒ Custom 9 μs
ACK Timeout	48 μs

AP Settings

SSID

Select if an SSID is broadcasting on 2.4 GHz, 5 GHz or both bands.

Operating Country	This drop-down menu specifies the national / regional regulations the AP should follow. If a North American region is selected, RF channels 1 to 11 will be available and the maximum transmission power will be 26 dBm (400 mW). If a European region is selected, RF channels 1 to 13 will be available. The maximum transmission power will be 20 dBm (100 mW). NOTE: Users are required to choose an option suitable to local laws and regulations. Per FCC regulation, the country selection is not available on all models marketed in the US. All US models are fixed to US channels only.
Protocol	Choose 802.11ng or 802.11n/ac as your access point's Wi-Fi protocol. The AP One Mini provides the 802.11ng protocol for the 2.4 GHz band and the 802.11n/ac protocol for the 5GHz band, as shown below.
Channel Width	This option defines which channel width the radio will use: 20MHz - Supports clients with 20MHz capability. This is the default value for 802.11ng. 40MHz - Supports clients with 20/40MHz capability. 20/40MHz - Supports clients with 20/40 MHz capability. The radio will fall back to 20MHz if it detects APs that only support 20MHz. This is the default value for 802.11na. 80MHz - Supports clients with 20/40/80MHz capability. This is the default value for 802.11n/ac.
Channel	This drop-down menu selects the 2.4 GHz and 5GHz 802.11 channels to be used. When Auto is selected, the system will perform channel scanning based on the scheduled time set and choose the most suitable channel automatically.
Output Power	This option enables the configuration of transmission power. Choose between: Max / High / Medium / Low / Custom. Max is the Maximum power supported for that country or Maximum power supported for the device (whichever is the smaller value). High is 3dBm below the max value. Medium is 3dBm below high value. Low is 3 dBm below Medium value.
Client Signal Strength Threshold	This field determines the minimum acceptable client signal strength, specified in decibel-milliwatts (dBm). If client signal strength does not meet this minimum, the client will not be allowed to connect.
Maximum number of Clients	Enter the maximum clients that can simultaneously connect to your access point or set the value to 0 to allow unlimited clients.
Discover Nearby Networks	Check this box to enable network discovery. Note that setting Channel to Auto will activate this feature automatically.
Beacon Rate	This drop-down menu provides the option to send beacons in different transmit bit rates. The bit rates are 1 Mbps, 2 Mbps, 5.5 Mbps, 6 Mbps, and 11 Mbps.
Beacon Interval	Set the time between each beacon send. Available options are 100 ms, 250 ms, and 500 ms.
DTIM	Set the frequency for the beacon to include delivery traffic indication messages (DTIM).

	The interval unit is measured in milliseconds.
RTS Threshold	Set the minimum packet size for your access point to send an RTS using the RTS/CTS handshake. Setting 0 disables this feature.
Fragmentation Threshold	Enter a value to limit the maximum frame size, which can improve performance.
Distance / Time Convertor	This slider and text entry field can be used to interactively set slot time.
Slot Time	This field provides the option to modify the unit wait time before your access point transmits. The default value is 9μs .
ACK Timeout	Set the wait time to receive an acknowledgement packet before retransmitting. The default value is 48μs .

7.2 Status

7.2.1 Access Point

A detailed breakdown of data usage and number of clients for each AP is available at **AP > Status > Access Point**.



AP Status

Name	IP Address	Clients	Sent (Retry) kbps (%)	Received (Retry) kbps (%)
AP-One-AC-Mini-E	(Local)	1 / 0	5.54 (0%) / 0.00 (0%)	4.81 (0%) / 0.00 (0%)

This table shows the detailed information on each AP, including channel, number of clients, power, upload traffic, and download traffic. On the right of the table, you will see the following icons:

Click the icon to see a usage table for each client:

Client List (2)

MAC Address	IP Address	Type	RSSI	SSID	Download	Upload
00:1A:DD:D9:4D:84	192.168.1.102	802.11ng	-65	PEPWAVE	153834701	29402606

Close

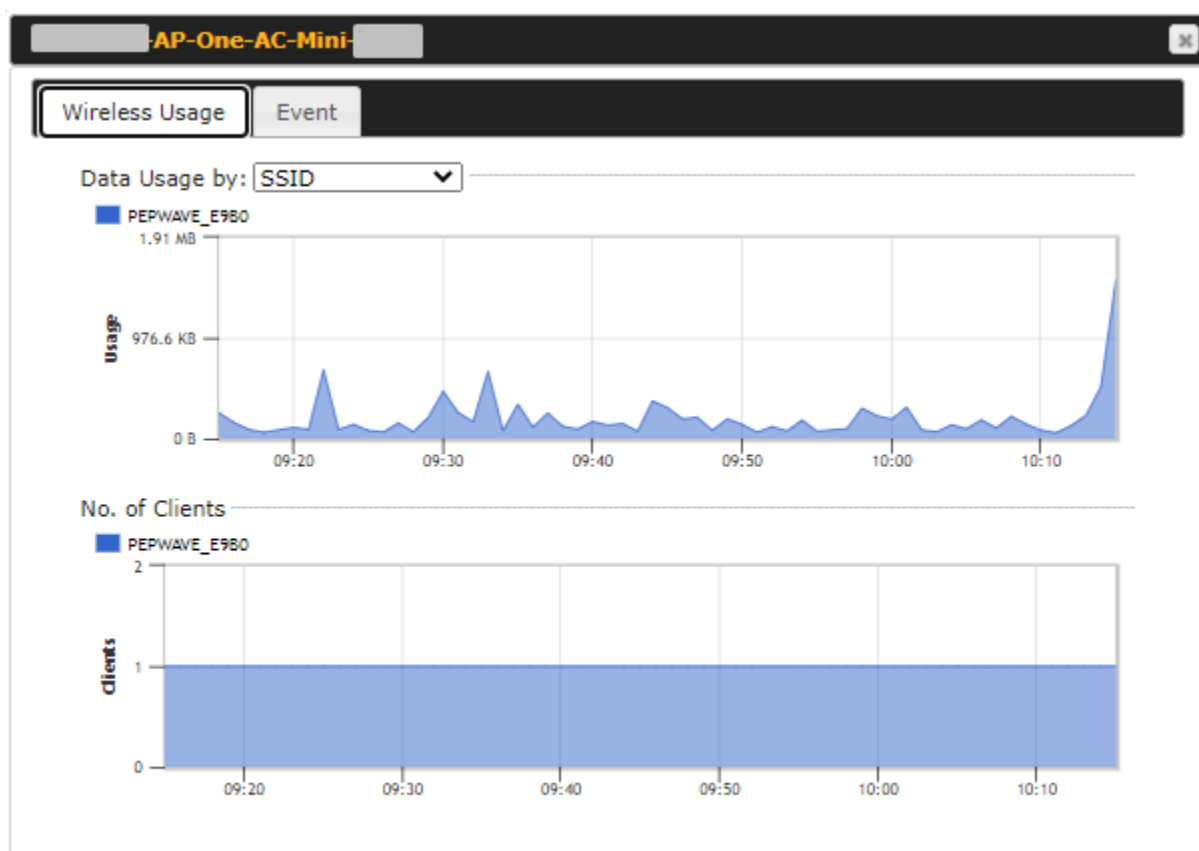
Click the icon to configure AP details.

AP Details

Serial Number	
MAC Address	00:1A:DD:7B:67:F0
Product Name	Pepwave AP One AC Mini
Firmware Version	3.7.3
SSID List	2.4 GHz: PEPLINK_072C (00:1A:DD:7B:67:E4) 5 GHz: PEPLINK_072C (00:1A:DD:7B:67:E8)
Current Channel	2.4 GHz: 2 5 GHz: 36
Current Output Power	2.4 GHz: 20 dBm 5 GHz: 20 dBm

Close

Click the  icon to see a graph displaying usage.



Click any point on the graphs to display detailed usage and client information for that device, using that SSID, at that point in time. On the **Data Usage by** drop-down menu, you can display the information by SSID or by AP send/receive rate.

AP-One-AC-Mini

Wireless Usage

Event

Event Log

Auto refresh

Dec 28 10:42:58	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 28 10:42:36	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 28 10:00:49	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 28 10:00:47	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 28 10:00:28	[Radio 2]	Channel changed from 149 to 153
Dec 28 10:00:28		Channel changed from 1 to 8
Dec 28 08:45:38	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 28 08:45:28	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 28 08:45:04	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 27 22:21:52	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 27 10:43:28	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 27 10:43:00	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 27 10:42:42	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 26 16:21:51	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 26 11:18:48	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 26 11:18:39	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 26 11:18:20	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 25 21:27:04	Client	associated with PEPWAVE E9B0 (2.4 GHz)
Dec 25 21:26:40	Client	disassociated from PEPWAVE E9B0 (2.4 GHz)
Dec 25 10:23:26	Client	associated with PEPWAVE E9B0 (2.4 GHz)

More...

You may click the **Event** tab which is next to **Wireless Usage** to view a detailed event log for that particular device.

7.2.2 Wireless SSID

In-depth SSID reports are available under **AP > Status > Wireless SSID**.



Click the blue arrow on any SSID to obtain more detailed usage information on each SSID.

7.2.3 Wireless Client

You can search for specific Wi-Fi users by navigating to **AP > Status > Wireless Client**.

Search Filter	
Search Key	Client MAC Address / SSID
Maximum Result (1-256)	50
Show Associated Clients Only	☐
Search Result	
Search	

Wireless Clients						
Name / MAC Address ▲	IP Address	Type	RSSI (dBm)	SSID	AP	Duration
Surf / [REDACTED] 9...	192.168.0.2	802.11ng	-63	PEPWAVE [REDACTED]	[REDACTED]-AP-One-AC...	06:00:09 ☆ 

Top 10 Clients of last hour (Updated at 09:00)		
Client	Upload	Download
Surf / [REDACTED]	5.30 MB	73.97 MB ☆ 

Wireless Client allows you to be able to see your network's heaviest users as well as search for specific users. Click the ☆ icon to bookmark specific users, and click the  icon for additional details about each user.

Client 00:1A:DD:D9:4D:84

Information	
Status	Associated
Client	Surf / C...
Access Point	TK-Cyber-AP-One-AC-Mini-5332 / 00:1A:DD:D9:4D:84
SSID	PEPWAVE_E9B0
IP Address	192.168.0.232
Duration	06:08:21
Usage (Download / Upload)	145.02 MB / 27.00 MB
RSSI	-65 dBm
Rate (Download / Upload)	72M / 72.2M
Type	802.11ng



SSID	AP	From	To	Download	Upload
PEPWAVE_E9B0 (2.4 GHz)	TK-Cyber-AP-One-AC-...	Dec 28 03:42:58	-	145.01 MB	26.99 MB
PEPWAVE_E9B0 (2.4 GHz)	TK-Cyber-AP-One-AC-...	Dec 28 03:00:49	Dec 28 03:42:36	1.82 MB	702.7 KB
PEPWAVE_E9B0 (2.4 GHz)	TK-Cyber-AP-One-AC-...	Dec 28 01:45:38	Dec 28 03:00:47	20.90 MB	7.37 MB

7.2.4 Mesh / WDS

Mesh / WDS						
Type	MAC	Protocol	Rate (Send)	Rate (Receive)	Signal (dBm)	Duration
▼ AP_One_AC_Mini_5332 / 00:1A:DD:DA:EB:F0						
Mesh (test)	00:1A:DD:DA:EB:F0	802.11ac	520M	866.7M	-32	00:01:19

Mesh/WDS allows you to monitor the status of your wireless distribution system (WDS) or Mesh, and track activity by MAC address. This table shows the detailed information of each AP, including protocol, transmit rate (sent / received), signal strength, and duration.

7.2.5 Nearby Device

A listing of near devices can be accessed by navigating to **AP > Status > Nearby Device**.

Search Filter	
Search Key	MAC Address / SSID
Type	All
Maximum Result (1-999)	200
Time	From hh:mm to hh:mm
Search	

Nearby Devices							
Mark ▲	Type	MAC Address	SSID	Channel	Encryption	Last Seen	Mark as
✓	AP			36	WPA2	2 minutes ago	✕
✓	AP			36	WPA2	2 minutes ago	✕
✓	AP			36	WPA2	2 minutes ago	✕
✓	AP			36	WPA2	2 minutes ago	✕
	Station Probe		-	5		1 minute ago	✓ ☹
	Station Probe		-	5		11 minutes ago	✓ ☹
	Station Probe	00:0C:E7:06:B6:C9	-	5		2 hours ago	✓ ☹
	Station Probe	00:0C:E7:07:42:C3	-	5		1 hour ago	✓ ☹
	Station Probe	00:0C:E7:0B:15:1F	-	5		39 minutes ago	✓ ☹
	Station Probe	00:0C:E7:12:7A:D2	-	5		1 hour ago	✓ ☹
	Station Probe	00:0C:E7:18:9B:DB	-	5		37 minutes ago	✓ ☹
	Station Probe	00:0C:E7:46:28:77	-	5		39 minutes ago	✓ ☹
	Station Probe	00:0C:E7:47:74:AF	-	5		1 hour ago	✓ ☹
	Station Probe	00:0C:E7:58:59:8B	-	5		40 minutes ago	✓ ☹
	Station Probe	00:0C:E7:5A:5C:BA	-	5		40 minutes ago	✓ ☹
	Station Probe	00:0C:E7:79:F7:92	-	5		2 hours ago	✓ ☹
	Station Probe	00:0C:E7:AB:70:EE	-	5		1 hour ago	✓ ☹
	Station Probe	00:0C:E7:C4:8A:55	-	5		39 minutes ago	✓ ☹
	Station Probe	00:0C:E7:C8:90:9C	-	5		23 minutes ago	✓ ☹
	Station Probe	00:0C:E7:CF:0A:54	-	5		59 minutes ago	✓ ☹

Nearby Devices

Hovering over the device MAC address will result in a popup with information on how this device was detected. You may click the icon to mark the device as a known device or click the icon to mark the device as a rogue device. Marking a device with either icon will move the device to the bottom of the table of identified devices. You can sort devices by their assigned mark by clicking the **Mark** column. You may unmark a device by clicking on the icon.

7.2.6 Event Log

You can access the AP Controller Event log by navigating to **AP > Status > Event Log**.

Filter	
Search key	Client MAC Address / Wireless SSID
Time	From hh:mm to hh:mm
Alerts only	☐
Search	

Event Log ✓ Auto refresh	
Dec 28 08:58:15	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 28 08:57:38	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 28 08:56:50	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 16:37:48	Channel changed from 11 to 9
Dec 24 16:37:28	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 16:35:53	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 16:35:46	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 16:17:15	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 16:17:07	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 15:16:43	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 15:16:39	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 15:08:27	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 15:08:23	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 14:36:38	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 14:36:21	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 14:35:17	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 14:35:12	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 11:38:46	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
Dec 24 11:38:42	Client 68:5D:43:FC:9B:71 disassociated from PEPWAVE_29DD
Dec 24 10:36:15	Client 68:5D:43:FC:9B:71 associated with PEPWAVE_29DD
More...	

Event Log

This event log displays all activity on your AP network, down to the client level. You can use the filter box to search by MAC address, SSID, AP Serial Number, or AP Profile name. Click **View Alerts** to see only alerts, and click the **More...** link for additional records.

8 System Tab

8.1 Admin Security

Admin Settings	
Device Name	AP-One-AC-Mini-E9B0 hostname: ap-one-ac-mini-e9b0 This configuration is being managed by InControl.
Admin User Name	admin
Admin Password	
Confirm Admin Password	
Read-only User Name	user
User Password	
Confirm User Password	
Web Session Timeout	4 Hours 0 Minutes
Authentication Method	☒ Local Account ☐ RADIUS ☐ TACACS+
Security	HTTP / HTTPS ☒ Redirect HTTP to HTTPS
Web Admin Access	HTTP: LAN / WAN HTTPS: LAN / WAN
Web Admin Port	HTTP: 80 HTTPS: 443

WAN Connection Access Settings					
Allowed Source IP Subnets	☒ Any ☐ Allow access from the following IP subnets only				
Allowed WAN IP Address(es)	<table border="1"> <thead> <tr> <th colspan="2">Connection / IP Address(es)</th> </tr> </thead> <tbody> <tr> <td>☒ WAN 1</td> <td>☒ Interface IP</td> </tr> </tbody> </table>	Connection / IP Address(es)		☒ WAN 1	☒ Interface IP
Connection / IP Address(es)					
☒ WAN 1	☒ Interface IP				

Admin Settings	
Device Name	This field allows you to define a name for this Peplink Balance unit. By default, Device Name is set as Model_XXXX , where XXXX refers to the last 4 digits of the serial number of that unit.
Admin User Name	Admin User Name is set as admin by default, but can be changed.
Admin	This field allows you to specify a new administrator password.

Password																											
Confirm Admin Password	This field allows you to confirm the new administrator password.																										
Read-only User Name	Read-only User Name is set as user by default, but can be changed, if desired.																										
User 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 User Password	This field allows you to confirm the new user password.																										
Web Session Timeout	A web login session will be logged out automatically when it has been idle longer than the Web Session Timeout. Unlimited session timeout: 0 hours 0 minutes. Default: 4 hours 0 minutes.																										
Authentication Method	When External Authentication is selected, the web admin will authenticate using the corresponding external server. Authenticated users are treated as either "admin" with full read-write permission or "user" with read-only access. Local admin and user accounts will be disabled. However, when the device is not able to communicate with the external server, local accounts are enabled to allow emergency access. By default, it is set to Local Account. Available options: - Local Account - RADIUS <table border="1"> <tr> <td>Authentication Method</td> <td>☐ Local Account ☒ RADIUS ☐ TACACS+</td> </tr> <tr> <td>Authentication Protocol</td> <td>MS-CHAP v2 ▼</td> </tr> <tr> <td></td> <td>You may click here to define RADIUS Server Authentication profile, or you may go to RADIUS Server page to define multiple profiles</td> </tr> <tr> <td>Authentication Host</td> <td> </td> </tr> <tr> <td>Authentication Port</td> <td>1812</td> </tr> <tr> <td>Authentication Secret</td> <td> ☒ Hide Characters</td> </tr> <tr> <td></td> <td>You may click here to define RADIUS Server Accounting profile, or you may go to RADIUS Server page to define multiple profiles</td> </tr> <tr> <td>Accounting Host</td> <td> </td> </tr> <tr> <td>Accounting Port</td> <td>1813</td> </tr> <tr> <td>Accounting Secret</td> <td> ☒ Hide Characters</td> </tr> <tr> <td>Authentication Timeout</td> <td>3 seconds</td> </tr> </table> <table border="1"> <tr> <td>Authentication Protocol</td> <td>This specifies the authentication protocol used. Available options are MSCHAP v2 and PAP.</td> </tr> <tr> <td>Authentication Host</td> <td>This specifies the IP address or hostname of the RADIUS server host.</td> </tr> </table>	Authentication Method	☐ Local Account ☒ RADIUS ☐ TACACS+	Authentication Protocol	MS-CHAP v2 ▼		You may click here to define RADIUS Server Authentication profile, or you may go to RADIUS Server page to define multiple profiles	Authentication Host		Authentication Port	1812	Authentication Secret	☒ Hide Characters		You may click here to define RADIUS Server Accounting profile, or you may go to RADIUS Server page to define multiple profiles	Accounting Host		Accounting Port	1813	Accounting Secret	☒ Hide Characters	Authentication Timeout	3 seconds	Authentication Protocol	This specifies the authentication protocol used. Available options are MSCHAP v2 and PAP.	Authentication Host	This specifies the IP address or hostname of the RADIUS server host.
Authentication Method	☐ Local Account ☒ RADIUS ☐ TACACS+																										
Authentication Protocol	MS-CHAP v2 ▼																										
	You may click here to define RADIUS Server Authentication profile, or you may go to RADIUS Server page to define multiple profiles																										
Authentication Host																											
Authentication Port	1812																										
Authentication Secret	☒ Hide Characters																										
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Accounting Port	1813																										
Accounting Secret	☒ Hide Characters																										
Authentication Timeout	3 seconds																										
Authentication Protocol	This specifies the authentication protocol used. Available options are MSCHAP v2 and PAP.																										
Authentication Host	This specifies the IP address or hostname of the RADIUS server host.																										

Authentication Port	This setting specifies the UDP destination port for authentication requests.
Authentication Secret	This field is for entering the secret key for accessing the RADIUS server.
Accounting Host	This specifies the IP address or hostname of the RADIUS server host.
Accounting Port	This setting specifies the UDP destination port for accounting requests.
Accounting Secret	This field is for entering the secret key for accessing the accounting server.
Authentication Timeout	This option specifies the time value for authentication timeout.

- TACACS+

Authentication Method	☐ Local Account ☐ RADIUS ☒ TACACS+
TACACS+ Server	
TACACS+ Server Secret	☒ Hide Characters
TACACS+ Server Timeout	3 seconds

TACACS+ Server	This specifies the access address of the external TACACS+ server.
TACACS+ Server Secret	This field is for entering the secret key for accessing the RADIUS server.
TACACS+ Server Timeout	This option specifies the time value for TACACS+ timeout.

Security

This option is for specifying the protocol(s) through which the web admin interface can be accessed:

- HTTP
- HTTPS
- HTTP/HTTPS

Web Admin Access

This option is for specifying the network interfaces through which the web admin interface can be accessed:

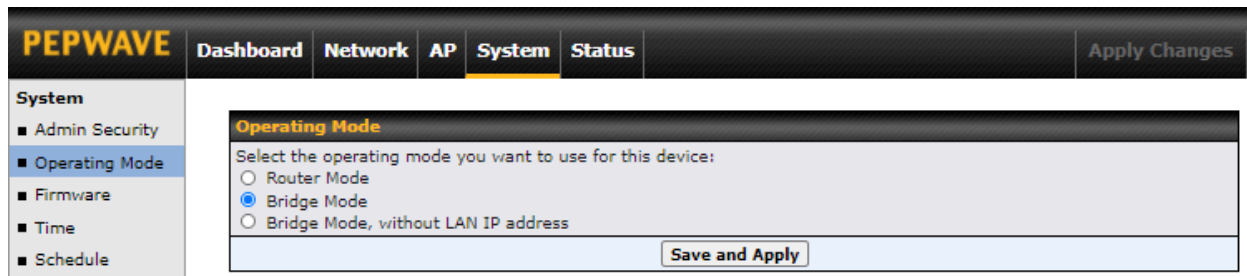
- LAN only
- LAN/WAN

If **LAN/WAN** is chosen, the WAN Connection Access Settings form will be displayed.

Web Admin Port This field is for specifying the port number on which the web admin interface can be

	accessed.
Allowed Source IP Subnets	This option is for specifying the IP subnets through which the web admin interface can be accessed. - Any - Allow web admin access to be from anywhere, and without an IP address. - Allow access from the following IP subnets only - Restrict web admin access to only the defined IP subnets. When this is chosen, a text input area will be displayed beneath: The allowed IP subnet addresses should be entered into this text area. Each IP subnet must be in form of w.x.y.z/m, where w.x.y.z is an IP address (e.g. 192.168.0.0), and m is the subnet mask in CIDR format, which is between 0 and 32 inclusively (e.g. 192.168.0.0/24). To define multiple subnets, separate each IP subnet one in a line. For example: 192.168.0.0/24 10.8.0.0/16
Allowed WAN IP Address(es)	This field allows you to select the WAN IP address(es) the web server should connect to.

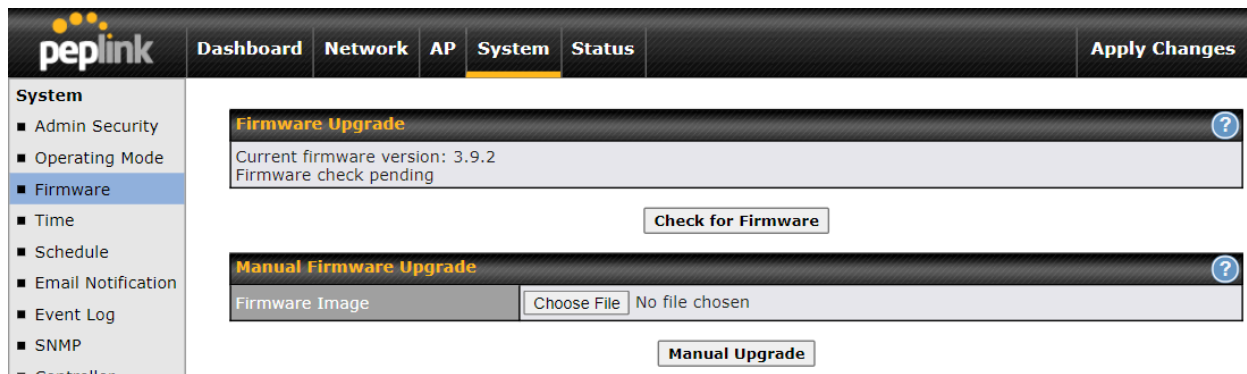
8.2 Operating Mode



You can select the operating mode you want to use for the access point device. The available options are:

- Router Mode
- Bridge Mode
- Bridge Mode, without LAN IP address

8.3 Firmware



The screenshot shows the Peplink web interface. The top navigation bar includes 'Dashboard', 'Network', 'AP', 'System' (selected), and 'Status'. On the right of the bar is an 'Apply Changes' button. A left sidebar lists 'System' settings: Admin Security, Operating Mode, Firmware (selected), Time, Schedule, Email Notification, Event Log, SNMP, and Controller. The main content area has two sections: 'Firmware Upgrade' and 'Manual Firmware Upgrade'. The 'Firmware Upgrade' section displays 'Current firmware version: 3.9.2' and 'Firmware check pending', with a 'Check for Firmware' button. The 'Manual Firmware Upgrade' section features a 'Firmware Image' label, a 'Choose File' button (which shows 'No file chosen'), and a 'Manual Upgrade' button.

There are two ways to upgrade the unit. The first method is through an online download. The second method is to upload a firmware file manually.

To perform an online download, click on the **Check for Firmware** button. The access point will check online for new firmware. If new firmware is available, the access point automatically downloads the firmware. The rest of the upgrade process will be automatically initiated.

You may also download a firmware image from the Peplink website and update the unit manually. To update using a firmware image, click **Choose File** to select the firmware file from the local computer, and then click **Manual Upgrade** to send the firmware to the access point. It will then automatically initiate the firmware upgrade process.

Please note that all devices can store two different firmware versions in two different partitions. A firmware upgrade will always replace the inactive partition. If you want to keep the inactive firmware, you can simply reboot your device with the inactive firmware and then perform the firmware upgrade.

Firmware Upgrade Status

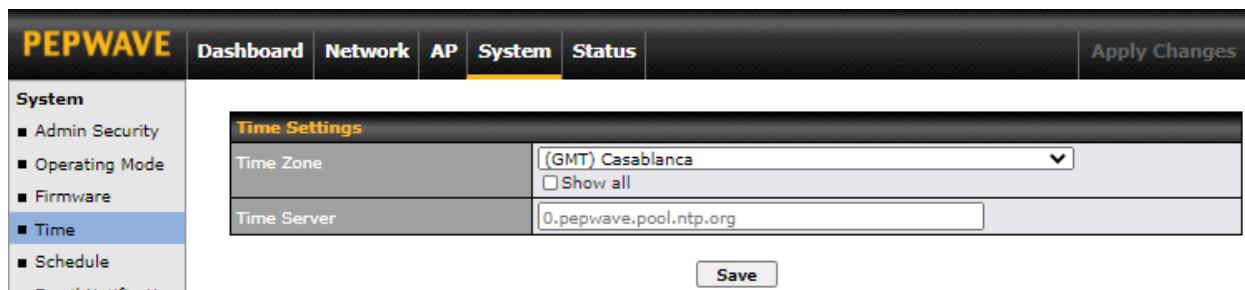
Status LED information during firmware upgrade:

- OFF – Firmware upgrade in progress (DO NOT disconnect power.)
- **Red** – Unit is rebooting
- **Green** – Firmware upgrade successfully completed

Important Note

The firmware upgrade process may not necessarily preserve the previous configuration, and the behavior varies on a case-by-case basis. Consult the release notes for the particular firmware version before installing. Do not disconnect the power during the firmware upgrade process. Do not attempt to upload a non-firmware file or a firmware file that is not supported by Peplink. Upgrading the Peplink Balance with an invalid firmware file will damage the unit and may void the warranty.

8.4 Time



PEPWAVE Dashboard Network AP **System** Status Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time**
- Schedule
- Email Notification

Time Settings

Time Zone: (GMT) Casablanca ☐ Show all

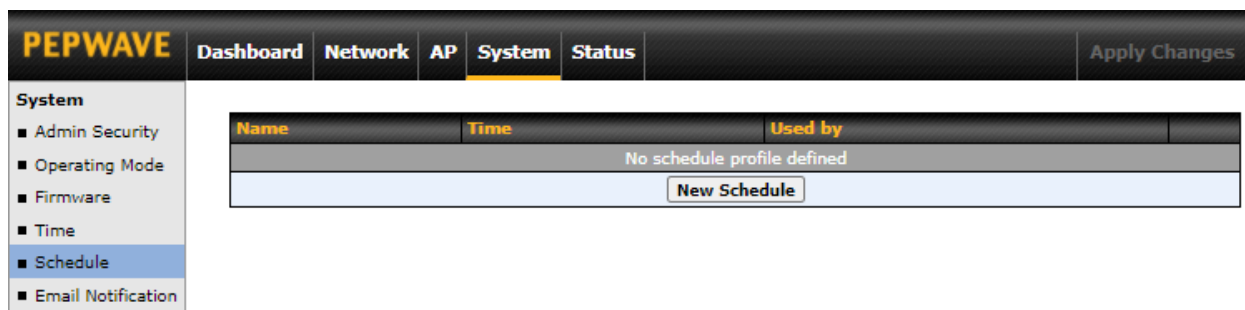
Time Server: 0.pepwave.pool.ntp.org

Save

The time server functionality enables the system clock of the access point to be synchronized with a specified time server. The settings for time server configuration are located at **System > Time**.

Time Settings	
Time Zone	This specifies the time zone (along with the corresponding Daylight Savings Time scheme) in which Peplink AP operates. The Time Zone value affects the time stamps in the event log of the Peplink AP 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 Peplink AP.

8.5 Schedule



PEPWAVE Dashboard Network AP **System** Status Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time
- Schedule**
- Email Notification

Name	Time	Used by
No schedule profile defined		

New Schedule

Enable and disable different functions such as WAN connections and SSID at different times, based on a user-scheduled configuration profile. The settings for this are located at **System > Schedule**.

Click on **New Schedule** to begin the schedule profile.

Edit schedule profile

Schedule Settings

Enable	☒ The schedule function of those associated features will be lost if profile is disabled.
Name	
Schedule	Always on
Used by	

Schedule Map

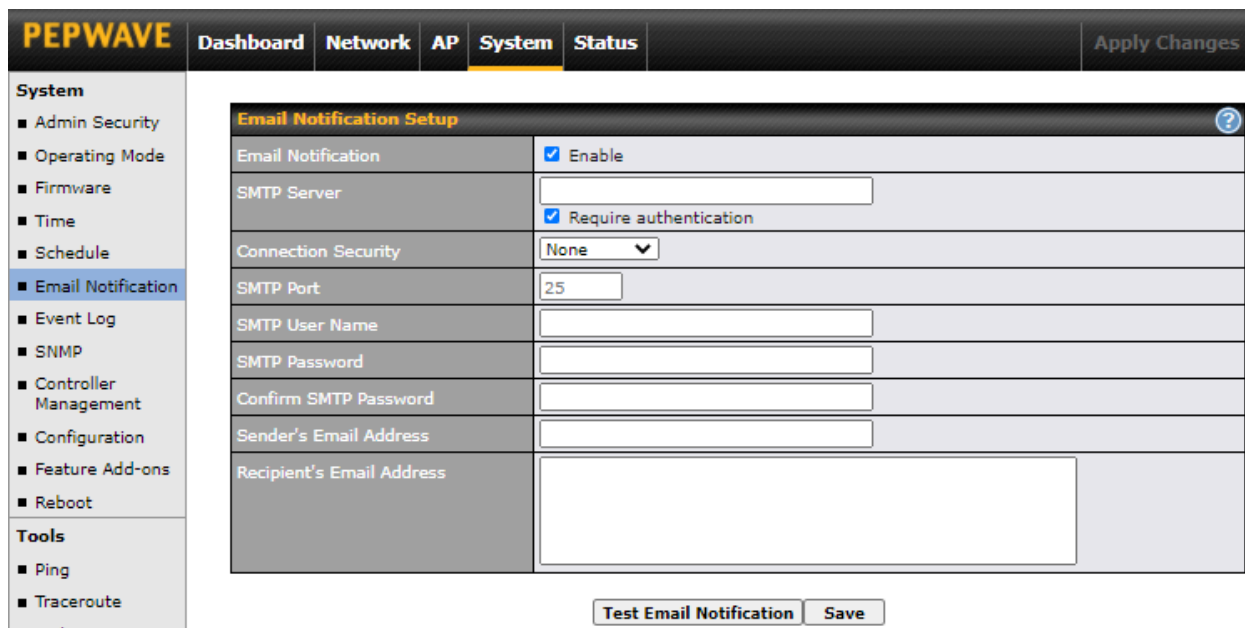
	Midnight	4am	8am	Noon	4pm	8pm
Sunday	☒	☒	☒	☒	☒	☒
Monday	☒	☒	☒	☒	☒	☒
Tuesday	☒	☒	☒	☒	☒	☒
Wednesday	☒	☒	☒	☒	☒	☒
Thursday	☒	☒	☒	☒	☒	☒
Friday	☒	☒	☒	☒	☒	☒
Saturday	☒	☒	☒	☒	☒	☒

Save

Cancel

Edit Schedule Profile	
Enable	Click this checkbox to enable this schedule profile. Note that if this is disabled, then any associated features will also have their scheduling disabled.
Name	Enter your desired name for this particular schedule profile.
Schedule	Click the drop-down menu to choose from predefined schedules as your starting point. Please note that upon selecting a predefined schedule, previous changes on the schedule map will be deleted.
Schedule Map	Click on the desired times to enable features for that time period. You can hold down your mouse button for faster entry.

8.6 Email Notification



PEPWAVE Dashboard Network AP **System** Status Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time
- Schedule
- Email Notification**
- Event Log
- SNMP
- Controller Management
- Configuration
- Feature Add-ons
- Reboot

Tools

- Ping
- Traceroute

Email Notification Setup ?

Email Notification	☒ Enable
SMTP Server	
	☒ Require authentication
Connection Security	None ▼
SMTP Port	25
SMTP User Name	
SMTP Password	
Confirm SMTP Password	
Sender's Email Address	
Recipient's Email Address	

Test Email Notification Save

Email notification functionality provides a system administrator with up-to-date information on network status. The settings for configuring email notifications are found at **System > Email Notification**.

Email Notification Settings	
Email Notification	This setting specifies whether or not to enable email notification. If Enable is checked, the Peplink AP will send email messages to system administrators when the WAN status changes or when new firmware is available. If Enable is unchecked, email notification is disabled and the Peplink AP will not send email messages.
SMTP Server	This setting specifies the SMTP server to be used for sending the email notifications. If the server requires authentication, check Require authentication.
Connection Security	This setting specifies via a drop-down menu one of the following valid connection security options: - None - STARTTLS - SSL/TTS When a connection security option is selected, the SMTP Port will automatically set a default port number.
SMTP Port	This field is for specifying the SMTP port number. By default, this is set to 25. When STARTTLS is selected, the default port number will be set to 587.

	When SSL/TLS is selected, the default port number will be set to 465 . You may customize the port number by editing this field.
SMTP User Name / Password	This setting specifies the SMTP username and password for accessing the SMTP Server to send the email notifications. These fields are only visible when the Require authentication box is checked in the SMTP Server setting.
Confirm SMTP Password	This field allows you to verify that the SMTP password matches (if a password is provided in the SMTP Password field).
Sender's Email Address	This setting specifies the email address that the Peplink AP will send reports from.
Recipient's Email Address	This setting specifies the email address(es) to which the Peplink AP will send email notifications. For multiple recipients, separate each email address using the Enter key.

After you have finished setting up email notifications, you may click the **Test Email Notification** button to test the settings before saving them. After **Test Email Notification** is clicked, you will see this screen to confirm the settings:

Test Email Notification	
SMTP Server	smtp.mycompany.com
SMTP Port	465
SMTP UserName	smtpuser
Sender's Email Address	admin@mycompany.com
Recipient's Email Address	system@mycompany.com staff@mycompany.com

Click **Send Test Notification** to send the test email with the current settings. In a few seconds, you will see a message with detailed test results.

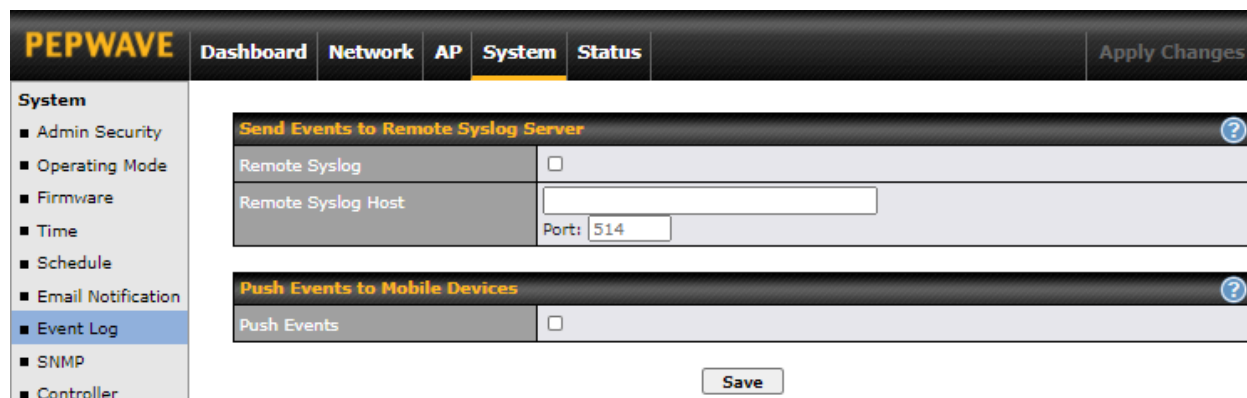
Test email sent.
(NOTE: Settings are not saved. To confirm the update, click 'Save' button.)

Email Notification Setup ?	
Email Notification	☒ Enable
SMTP Server	
	☒ Require authentication
Connection Security	SSL/TLS ▼ (Note: any server certificate will be accepted)
SMTP Port	465
SMTP User Name	
SMTP Password	
Confirm SMTP Password	
Sender's Email Address	
Recipient's Email Address	 

Test Result

```
[INFO] Try email through auto detected connection
[INFO] SMTP through SSL connected
[<-] 220 smtp.gmail.com ESMTP h11sm3907691pjg.46 - gsmt
[>-] EHLO balance.peplink.com
[<-] 250-smtp.gmail.com at your service, [14.192.209.255]
[<-] 250-SIZE 35882577
[<-] 250-8BITMIME
[<-] 250-AUTH LOGIN PLAIN XOAUTH2 PLAIN-CLIENTTOKEN OAUTHBEARER XOAUTH
[<-] 250-ENHANCEDSTATUSCODES
[<-] 250-PIPELINING
[<-] 250-CHUNKING
[<-] 250 SMTPUTF8
[>-] AUTH PLAIN AGdwc2djbjk0QGdtVWlsLmNvbQBwdnJ6bWF6cGhtVXJpanpp
```

8.7 Event Log



PEPWAVE | Dashboard | Network | AP | **System** | Status | Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time
- Schedule
- Email Notification
- Event Log**
- SNMP
- Controller

Send Events to Remote Syslog Server ?

Remote Syslog ☐

Remote Syslog Host
Port:

Push Events to Mobile Devices ?

Push Events ☐

Save

Event log functionality enables event logging at a specified remote syslog server. The settings for configuring the remote system log can be found at **System > Event Log**.

Remote Syslog Settings	
Remote Syslog	This setting specifies whether or not to log events at the specified remote syslog server.
Remote Syslog Host	This setting specifies the IP address or hostname of the remote syslog server. Default Port is: 514
Push Event	The Peplink AP can also send push notifications to mobile devices that have our Mobile Router Utility installed. Check the box to activate this feature. For more information on the Router Utility, go to: www.peplink.com/products/router-utility

8.8 SNMP

SNMP or simple network management protocol is an open standard that can be used to collect information about the Peplink AP unit. SNMP configuration is located at **System > SNMP**.

SNMP Settings	
SNMP Device Name	
Location 	
SNMP Port	161 Default
SNMPv1	☒ Enable
SNMPv2c	☒ Enable
SNMPv3	☒ Enable
SNMP Trap	☒ Enable
SNMP Trap Community	
SNMP Trap Server	
Save	

SNMP Settings	
SNMP Device Name	This field displays the router name defined at System > Admin Security .
SNMP Port	This option specifies the port which SNMP will use. The default port is 161 .
SNMPv1	This option allows you to enable SNMP version 1.
SNMPv2c	This option allows you to enable SNMP version 2c.
SNMPv3	This option allows you to enable SNMP version 3.
SNMP Trap	This option allows you to enable SNMP Trap. If enabled, the following entry fields will appear.
SNMP Trap Community	This setting specifies the SNMP Trap community name.
SNMP Trap Server	Enter the IP address of the SNMP Trap server.

To add a community for either SNMPv1 or SNMPv2c, click the **Add SNMP Community** button in the **Community Name** table, upon which the following screen is displayed:

SNMP Community
✕

Community Name	
Allowed Network	/ 255.255.255.0 (/24) ▼

SNMP Community Settings	
Community Name	This setting specifies the SNMP community name.
Allowed Network	This setting specifies a subnet from which access to the SNMP server is allowed. Enter the subnet address here (e.g. 192.168.1.0) and select the appropriate subnet mask.

To define a user name for SNMPv3, click **Add SNMP User** in the **SNMPv3 User Name** table, upon which the following screen is displayed:

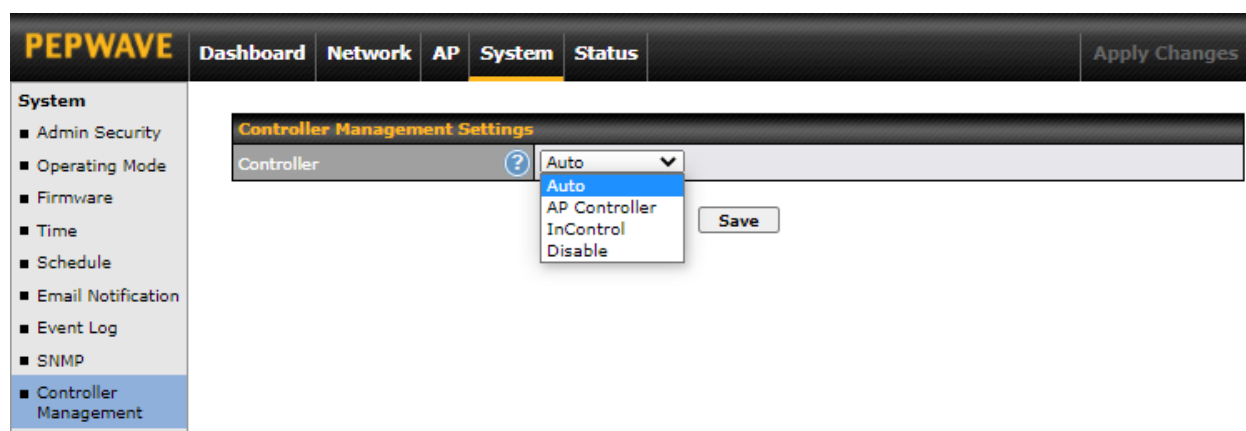
SNMPv3 User
✕

User Name	
Authentication	MD5 ▼
Privacy	DES ▼

SNMPv3 User Settings	
User Name	This setting specifies a user name to be used in SNMPv3.
Authentication Protocol	This setting specifies via a drop-down menu one of the following valid authentication protocols: • None • MD5 • SHA When MD5 or SHA is selected, an entry field will appear for the password.
Privacy	This setting specifies via a drop-down menu one of the following valid privacy protocols: • NONE • DES • AES

When DES or AES is selected, an entry field will appear for the password.

8.9 Controller Management



The screenshot shows the PEPWAVE web interface with the 'System' tab selected. The 'Controller Management Settings' section is visible, featuring a 'Controller' dropdown menu with a question mark icon. The dropdown is open, showing the following options: 'Auto' (selected), 'AP Controller', 'InControl', and 'Disable'. A 'Save' button is located to the right of the dropdown. The left sidebar shows the 'System' menu with 'Controller Management' highlighted.

Here is the option to choose the controller management for the access point. This setting specifies via a drop-down menu one of the following valid authentication protocols:

- Auto - AP automatically assigned to active AP Controller.
- AP Controller - AP is controlled by Peplink Balance with AP controller feature.

AP Controller	
Persistent Controller	Check the box Persistent Controller and enter the IP address of the Peplink Balance under Controller Host.
• InControl - AP is controlled by InControl*	
InControl	
Restricted to Status Reporting Only	When the box Restricted to Status Reporting Only is ticked, the AP will only report its status, but can't be managed or configured by InControl.
Privately Host InControl	Check the box " Privately Host InControl " and enter the IP Address or hostname of your InControl Appliance.

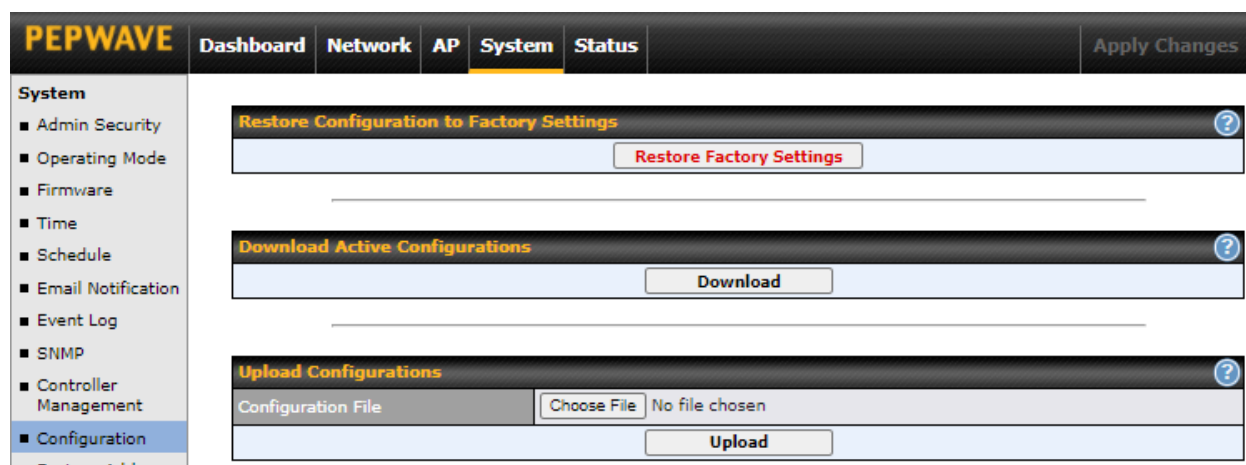
- Disable - You can disable the controller feature on the AP.

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

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

8.10 Configuration

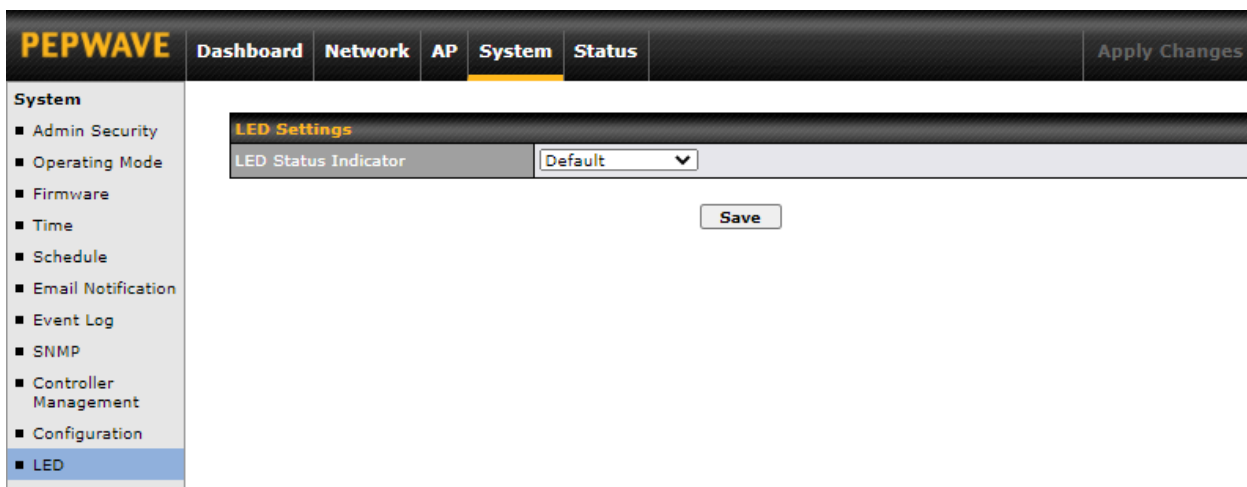
Backing up your Peplink access point settings immediately after successful completion of the initial setup is strongly recommended. The functionality to download and upload Peplink access point settings is found at **System > Configuration**.



Configuration	
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 Apply Changes button on the top right corner to make the settings effective.
Download Active Configurations	Click Download to backup the current active settings.
Upload Configurations	To restore or change settings based on a configuration file, click Choose File to locate the configuration file on the local computer, and then click Upload . The new settings can then be applied by clicking the Apply Changes button on the page header, or you can cancel the procedure by pressing discard on the main page of the web admin interface.

8.11 LED

*Please note that the following settings are available only for **AP One AX devices**.



PEPWAVE Dashboard Network AP **System** Status Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time
- Schedule
- Email Notification
- Event Log
- SNMP
- Controller Management
- Configuration
- LED**

LED Settings

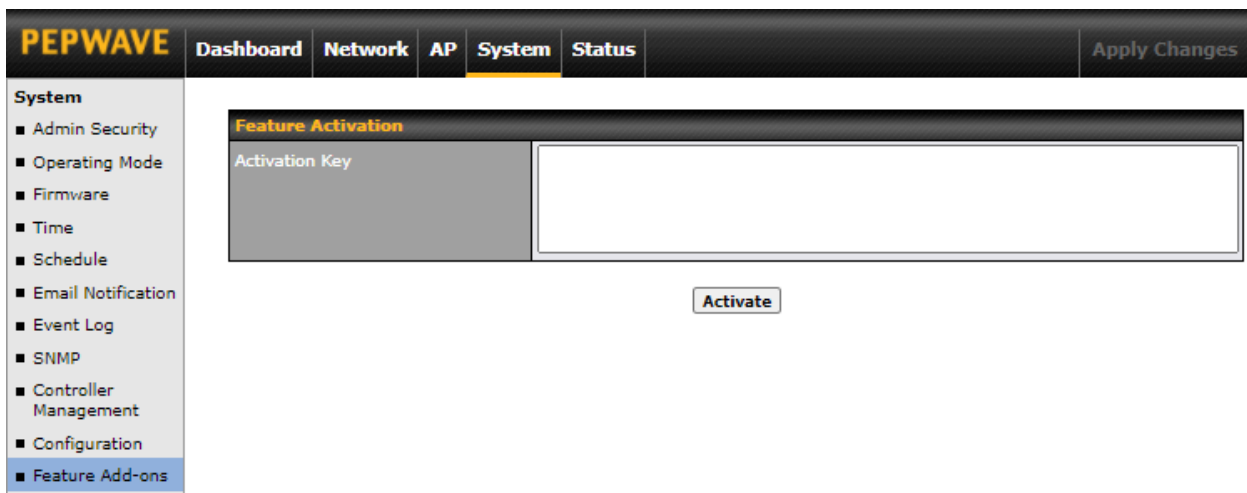
LED Status Indicator: Default

Save

You can control the LED Status Indicator (available only for AP One AX devices). Available options are:

- Default
- Always Turn Off

8.12 Feature Add-Ons



PEPWAVE Dashboard Network AP **System** Status Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time
- Schedule
- Email Notification
- Event Log
- SNMP
- Controller Management
- Configuration
- Feature Add-ons**

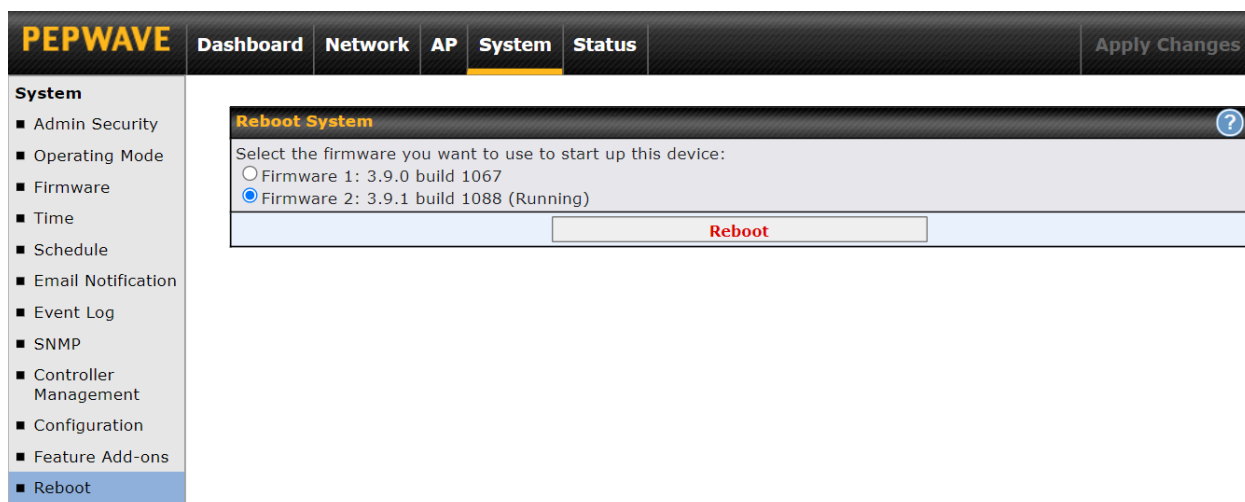
Feature Activation

Activation Key: [Text Input Field]

Activate

Some Peplink access point models have features that can be activated upon purchase. Once the purchase is complete, you will receive an activation key. Enter the activation key into the **Activation Key** field, click **Activate**, and then click **Apply Changes**.

8.13 Reboot



The screenshot shows the Peplink PEPWAVE web interface. The top navigation bar includes 'Dashboard', 'Network', 'AP', 'System' (highlighted), and 'Status'. On the right of the bar is an 'Apply Changes' button. A left-hand sidebar lists system settings: Admin Security, Operating Mode, Firmware, Time, Schedule, Email Notification, Event Log, SNMP, Controller Management, Configuration, Feature Add-ons, and Reboot (highlighted). The main content area is titled 'Reboot System' and contains the instruction 'Select the firmware you want to use to start up this device:'. Below this are two radio button options: 'Firmware 1: 3.9.0 build 1067' and 'Firmware 2: 3.9.1 build 1088 (Running)'. The second option is selected. At the bottom of the form is a red 'Reboot' button.

Restart the access point with the **Reboot** button. For maximum reliability, the Peplink access point can contain 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.

8.14 Tools

8.14.1 PING

Ping

Destination
1.1.1.1

Start

Results
Clear Log

```

> ping -c 10 1.1.1.1
PING 1.1.1.1 (1.1.1.1): 56 data bytes
64 bytes from 1.1.1.1: icmp_seq=0 ttl=58 time=13.6 ms
64 bytes from 1.1.1.1: icmp_seq=1 ttl=57 time=15.3 ms
64 bytes from 1.1.1.1: icmp_seq=2 ttl=58 time=13.2 ms
64 bytes from 1.1.1.1: icmp_seq=3 ttl=58 time=12.4 ms
64 bytes from 1.1.1.1: icmp_seq=4 ttl=57 time=20.6 ms
64 bytes from 1.1.1.1: icmp_seq=5 ttl=58 time=20.7 ms
64 bytes from 1.1.1.1: icmp_seq=6 ttl=58 time=11.9 ms
64 bytes from 1.1.1.1: icmp_seq=7 ttl=58 time=12.4 ms
64 bytes from 1.1.1.1: icmp_seq=8 ttl=57 time=15.7 ms
64 bytes from 1.1.1.1: icmp_seq=9 ttl=58 time=12.4 ms
--- 1.1.1.1 ping statistics ---
10 packets transmitted, 10 packets received, 0% packet loss
round-trip min/avg/max = 11.9/14.8/20.7 ms

```

The ping test tool tests connectivity by pinging the specified destination IP address. The ping utility is located at **System > Tools > Ping**.

8.14.2 Traceroute

Traceroute

Destination
1.1.1.1

Start

The traceroute test tool traces the routing path to the specified IP address. The traceroute test utility is located at **System > Tools > Traceroute**.

8.14.3 Wake-on-LAN

PEPWAVE
Dashboard
Network
AP
System
Status
Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time
- Schedule
- Email Notification
- Event Log
- SNMP
- Controller Management
- Configuration
- Feature Add-ons
- Reboot

Tools

- Ping
- Traceroute
- Wake-on-LAN**
- WAN Analysis

Wake-on-LAN

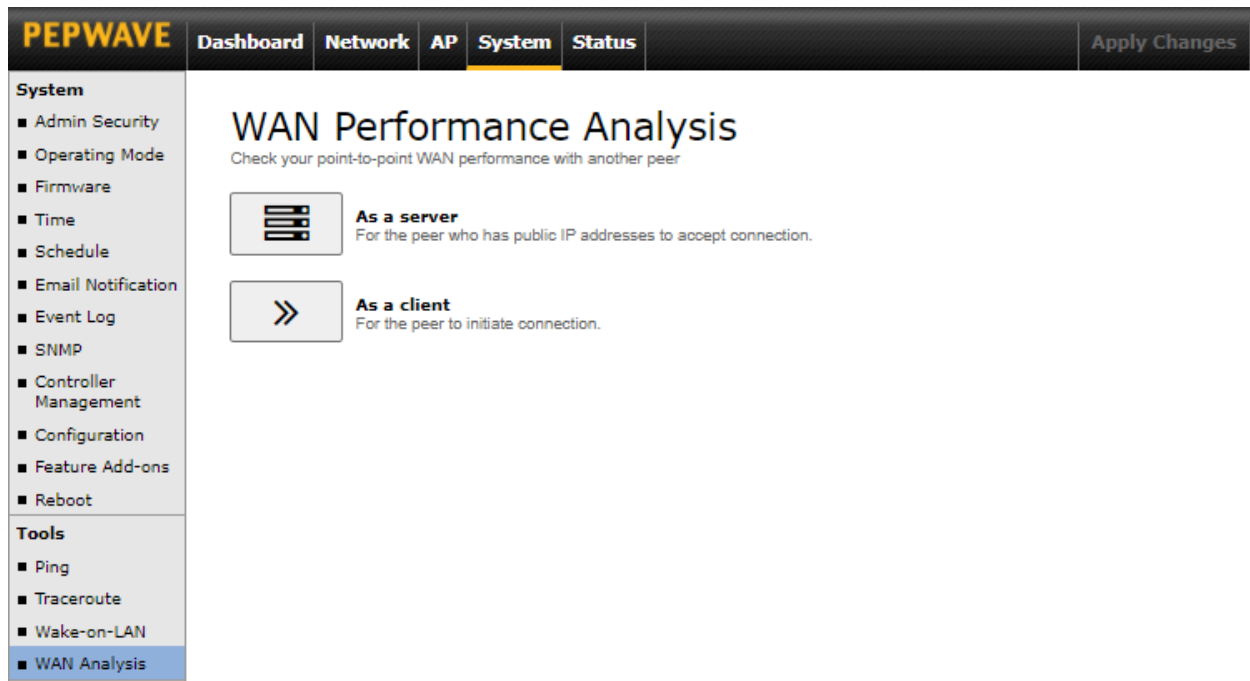
Wake-on-LAN Target

Custom MAC Address...
00:00:00:00:00:00
Send

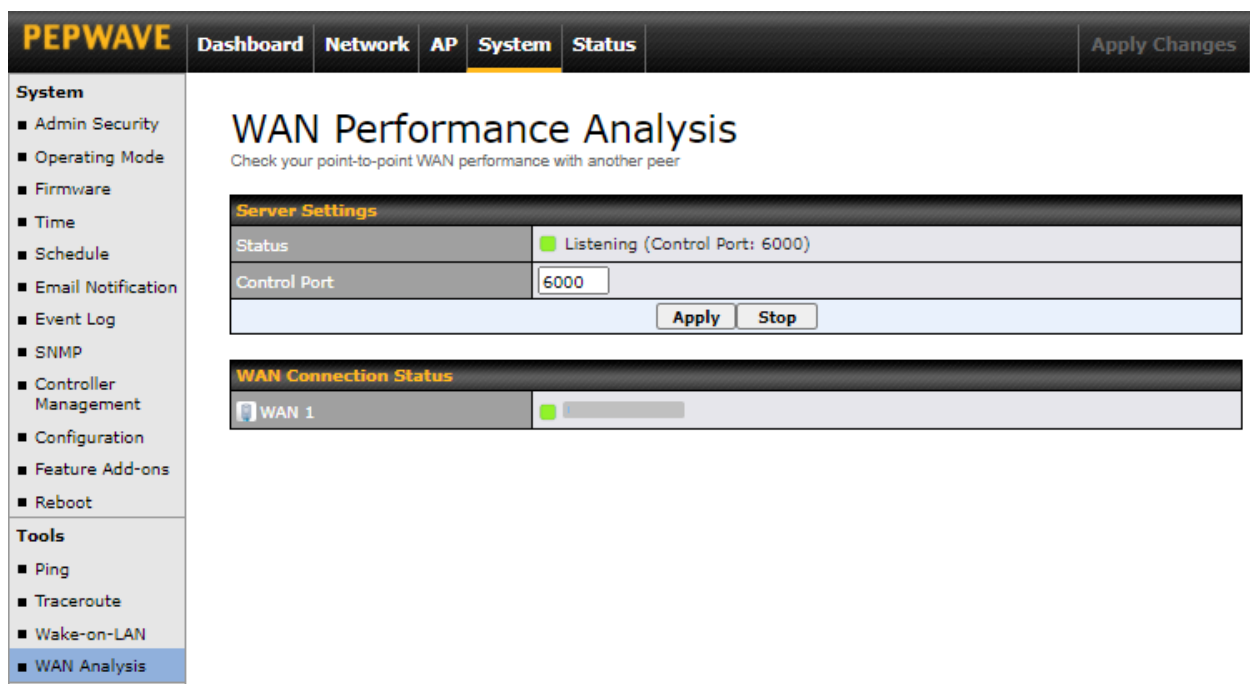
Peplink access points can send Magic Packets to any client specified from the Web UI. To access this feature, navigate to **System > Tools > Wake-on-LAN**.

Select a client from the drop-down list and click **Send** to send a Magic Packet.

8.14.4 WAN Analysis



The WAN Analysis feature allows you to run a WAN to WAN speed test between two Peplink devices. You may set up a device as either a server or a client. However, one device must be set up as a server to run the speed tests, and the server must have a public IP address.



The default **Control Port** is 6000 and it can be customized if required. The IP address of the WAN interface will be shown in the **WAN Connection Status** section.

PEP WAVE

DashboardNetworkAPSystemStatus

Apply Changes

System

- Admin Security
- Operating Mode
- Firmware
- Time
- Schedule
- Email Notification
- Event Log
- SNMP
- Controller Management
- Configuration
- Feature Add-ons
- Reboot

Tools

- Ping
- Traceroute
- Wake-on-LAN
- WAN Analysis

WAN Performance Analysis

Check your point-to-point WAN performance with another peer

Client Settings

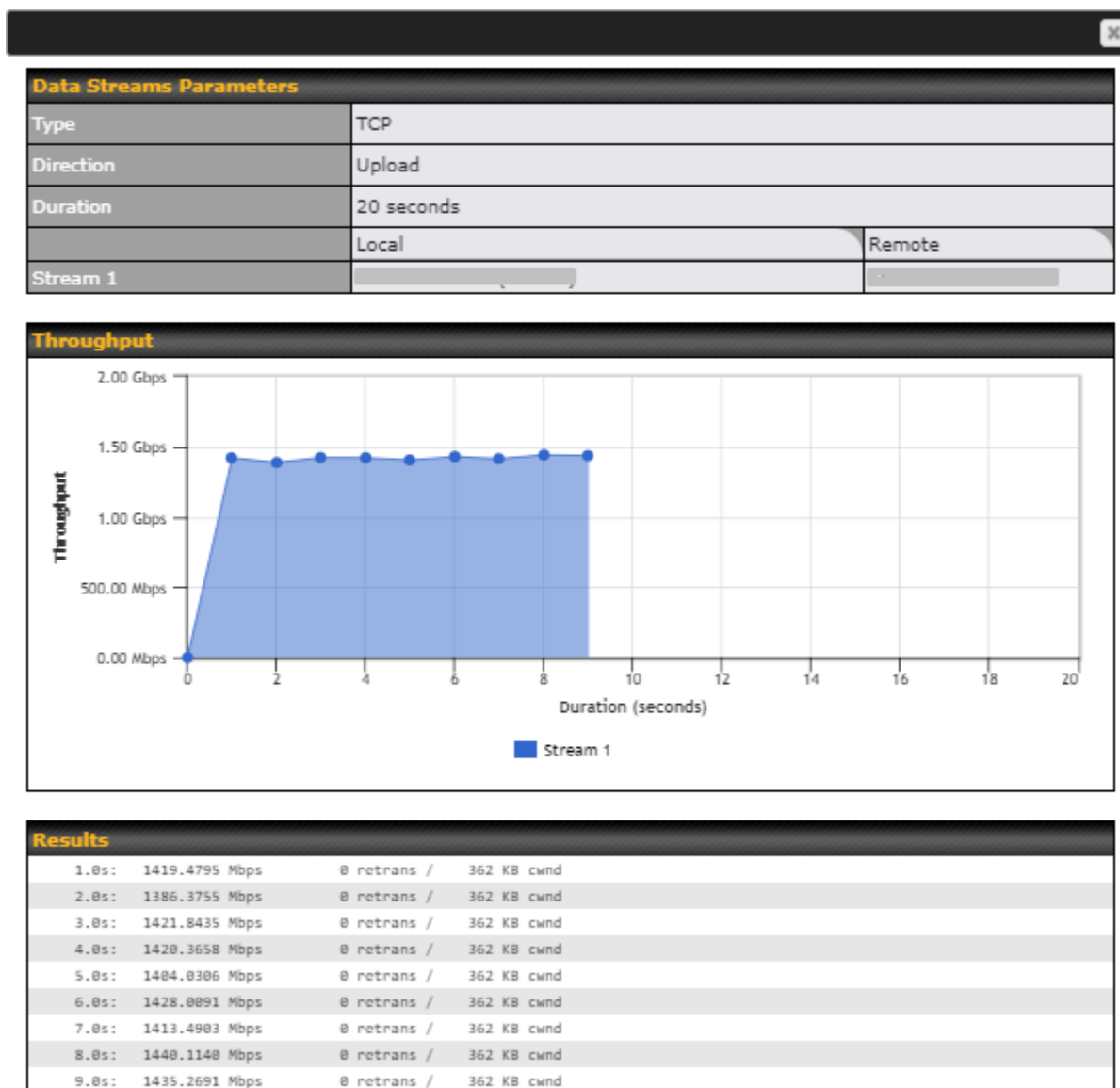
Control Port	6000
Data Port	63552 - 63559
Type	☒ TCP ☐ UDP
Direction	☒ Upload ☐ Download
Duration	20 seconds (5 - 600)

Data Streams

Local WAN Connection	Remote IP Address	
1. -- Not Used --		✗
2. -- Not Used --		✗
3. -- Not Used --		✗
4. -- Not Used --		✗
5. -- Not Used --		✗
6. -- Not Used --		✗
7. -- Not Used --		✗
8. -- Not Used --		+

Start Test

The client side has a few more settings that can be changed. Make sure that the **Control Port** matches what is entered on the server side. Select the WAN(s) that will be used for testing and enter the server's WAN IP address(es). Once all of the options have been set, click the **Start Test** button.



The test output will show the **Data Streams Parameters**, the **Throughput** as a graph, and the **Results**.

The test can be run again once it is complete by clicking the **Start** button or you can click **Close** and change the parameters for the test.

9 Status Tab

The displays available on the **Status** tab help you monitor device data, client activity, event log, and more.

9.1 Device

PEPWAVE
Dashboard
Network
AP
System
Status
Apply Changes

Status

- Device
- Client List
- Event Log

WAN Quality
Usage Reports

- Real-Time
- Hourly
- Daily
- Monthly

Logout

System Information

Device Name	AP-One-Flex- 1000
Model	Pepwave AP One Flex
Product Code	APO-FLX
Hardware Revision	4
Serial Number	XXXXXXXXXX
Firmware	3.9.1 build 1088
PepVPN Version	10.0.0
InControl Managed Configuration	AP
Host Name	ap-one-flex- 1000
Uptime	13 minutes
System Time	Mon Apr 11 20:20:22 +08 2022
Dagnostic Report	Download
Remote Assistance	Turn On

MAC Address

WAN	XXXXXXXXXX
-----	-----------------------

[Legal](#)

System Information	
Device Name	This is the name specified in the Device Name field located at System > Admin Security .
Model	This displays the model of the device.
Hardware Revision	This displays the hardware version of this device.
Serial Number	This displays the serial number of this device.
Firmware	This displays the firmware version this device is currently running.
PepVPN Version	This displays the current PepVPN version.

Host name	This displays the hostname of the device.
Uptime	This displays the length of time since the device has been rebooted.
System Time	This displays the current system time.
Diagnostic Report	The Download link is for exporting a diagnostic report file required for system investigation.
Remote Assistance	Click Turn On to enable remote assistance.

The second table shows the MAC address of each connected LAN/WAN interface. To view your device's End User License Agreement (EULA), follow the **Legal link**.

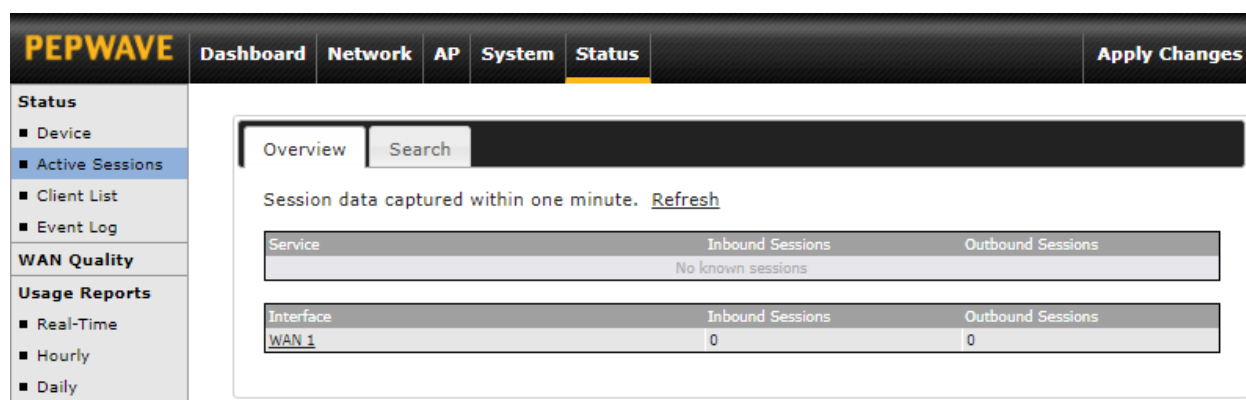
Important Note

If you encounter issues and would like to contact the Peplink Support Team (<https://contact.peplink.com/secure/create-support-ticket.html>), please download the diagnostic report file and attach it along with a description of your issue.

9.2 Active Session

Information on active sessions can be found at **Status > Active Sessions > Overview**.

*Please note that the following active session will be available only when your access point is operating in **Router Mode**.



PEPWAVE Dashboard Network AP System **Status** Apply Changes

Status

- Device
- Active Sessions**
- Client List
- Event Log

WAN Quality

Usage Reports

- Real-Time
- Hourly
- Daily

Overview Search

Session data captured within one minute. [Refresh](#)

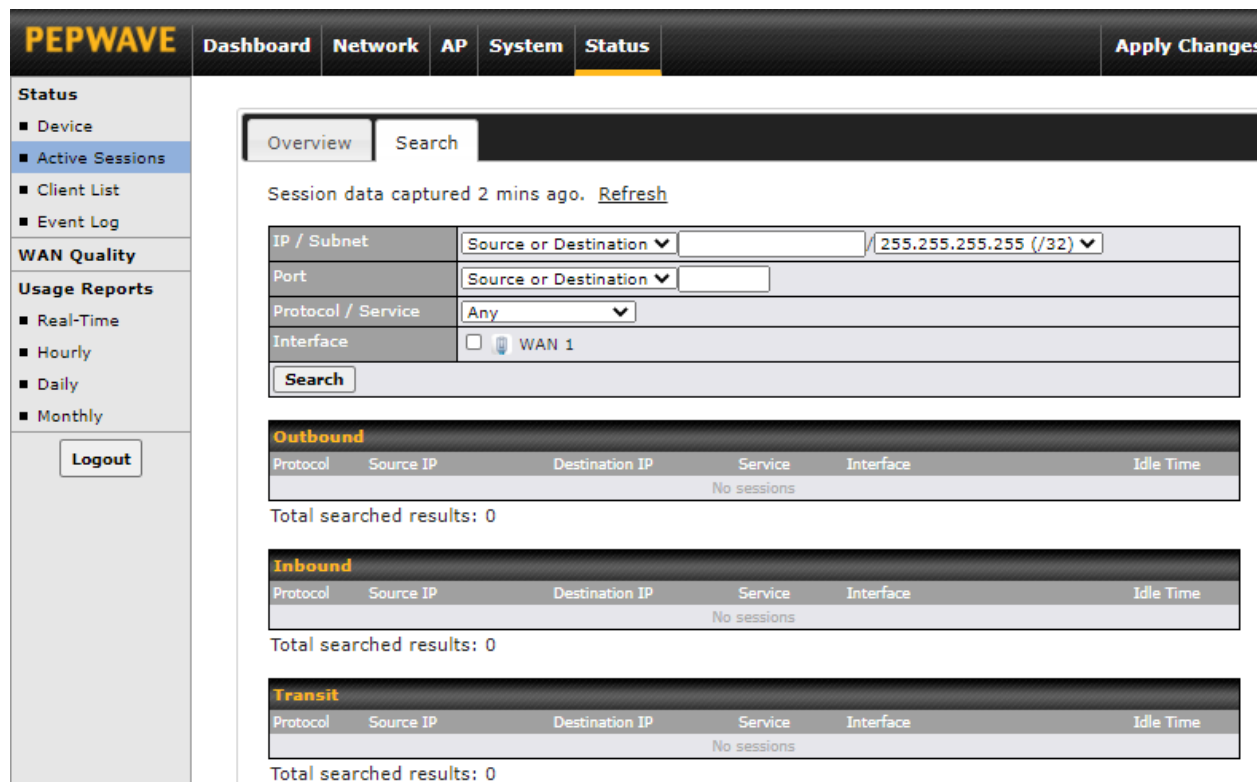
Service	Inbound Sessions	Outbound Sessions
No known sessions		

Interface	Inbound Sessions	Outbound Sessions
WAN 1	0	0

This screen displays the number of sessions initiated by each application. Click on each service listing for additional information. This screen also indicates the number of sessions initiated by each WAN port. In addition, you can see which clients are initiating the most sessions.

You can also perform a filtered search for specific sessions. You can filter by subnet, port,

protocol, and interface. To perform a search, navigate to **Status > Active Sessions > Search**.



PEPWAVE Dashboard Network AP System **Status** Apply Changes

Status

- Device
- **Active Sessions**
- Client List
- Event Log

WAN Quality

Usage Reports

- Real-Time
- Hourly
- Daily
- Monthly

Logout

Overview Search

Session data captured 2 mins ago. [Refresh](#)

IP / Subnet Source or Destination / 255.255.255.255 (/32)

Port Source or Destination

Protocol / Service Any

Interface ☐ WAN 1

Search

Outbound

Protocol	Source IP	Destination IP	Service	Interface	Idle Time
No sessions					

Total searched results: 0

Inbound

Protocol	Source IP	Destination IP	Service	Interface	Idle Time
No sessions					

Total searched results: 0

Transit

Protocol	Source IP	Destination IP	Service	Interface	Idle Time
No sessions					

Total searched results: 0

This **Active Sessions** section displays the active inbound/outbound sessions of each WAN connection on the Peplink router. A filter is available to sort active session information. Enter a keyword in the field or check the box of one of the WAN connections to filter your search.

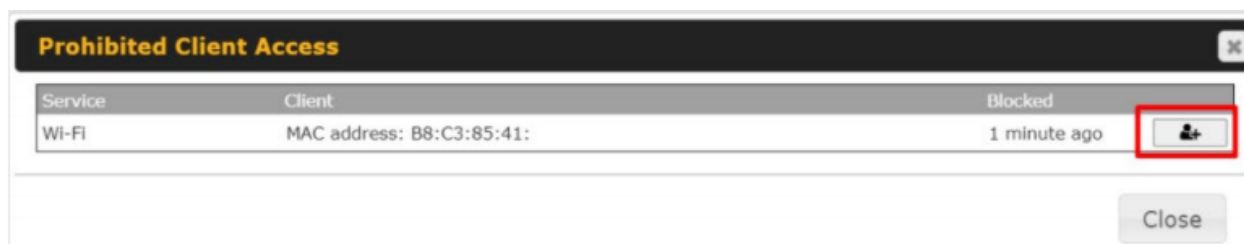
9.3 Client List

The **Client List** displays all currently connected clients. It lists DHCP and online client IP addresses, names (retrieved from the DHCP reservation table or defined by users), current download and upload rate, and MAC address.



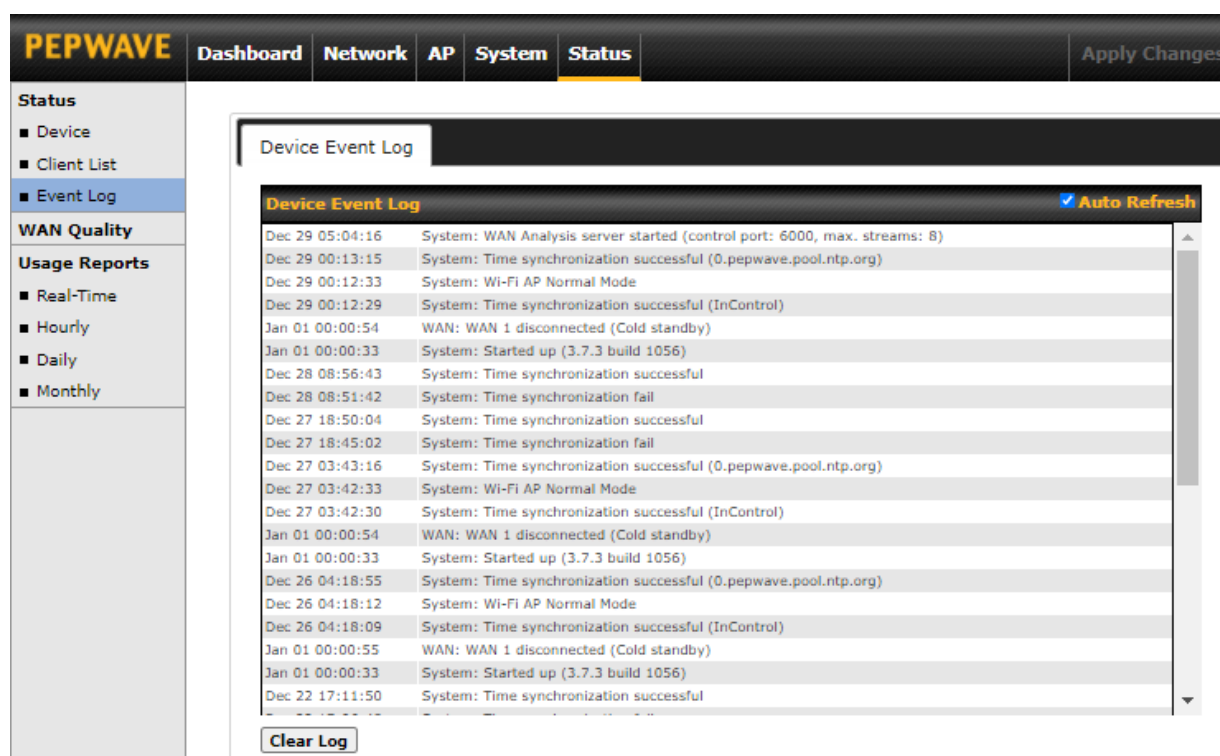
In the client list table, there is a **Ban Client** feature which can be used to disconnect Wi-Fi clients by clicking the button on the right.

There is a blocklist on the same page after you have banned Wi-Fi clients.



You may also unblock Wi-Fi clients when the client devices need to reconnect to the network by clicking the  button on the right.

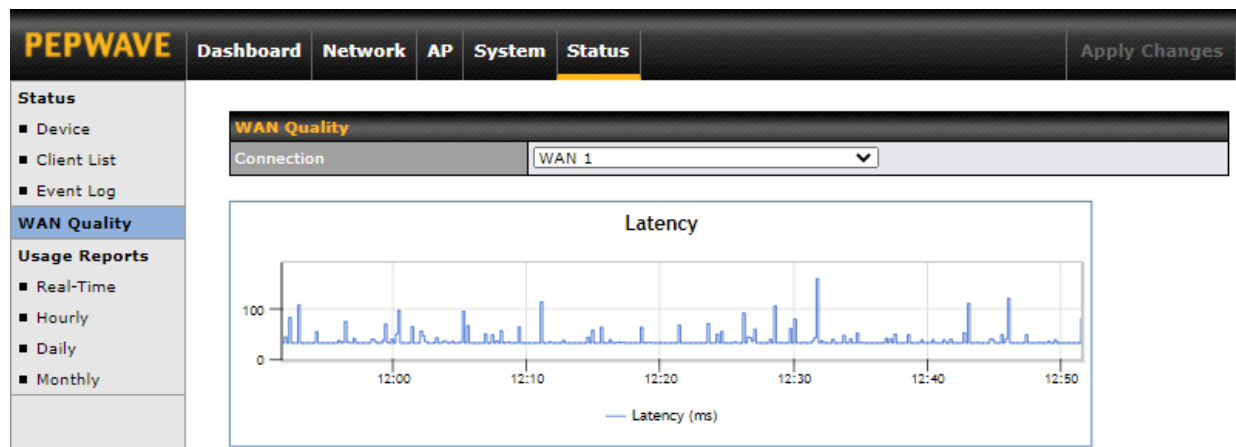
9.4 Event Log



The **Event Log** displays a list of all events associated with your access point. Check **Auto Refresh** to refresh log entries automatically. Click the **Clear Log** button to clear the log.

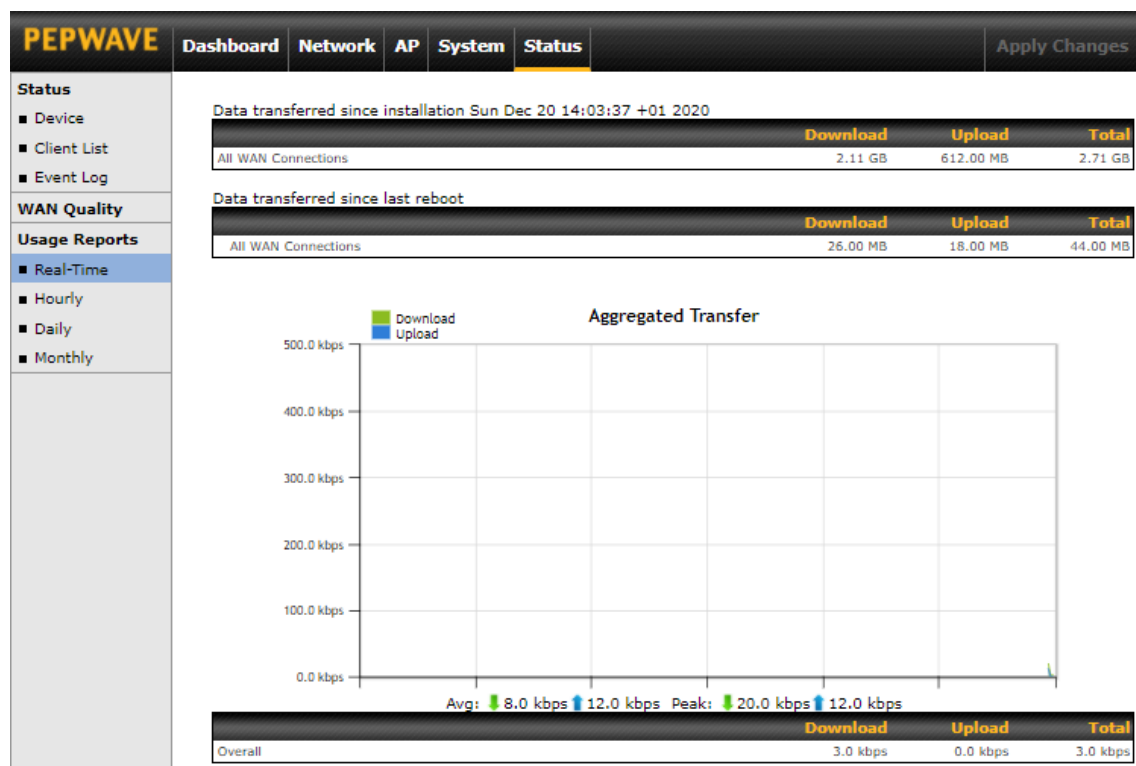
9.5 WAN Quality

The **Status > WAN Quality** allows you to select each WAN and view current WAN quality. Detailed information can be seen when selecting a point on the graph.



9.6 Usage Reports

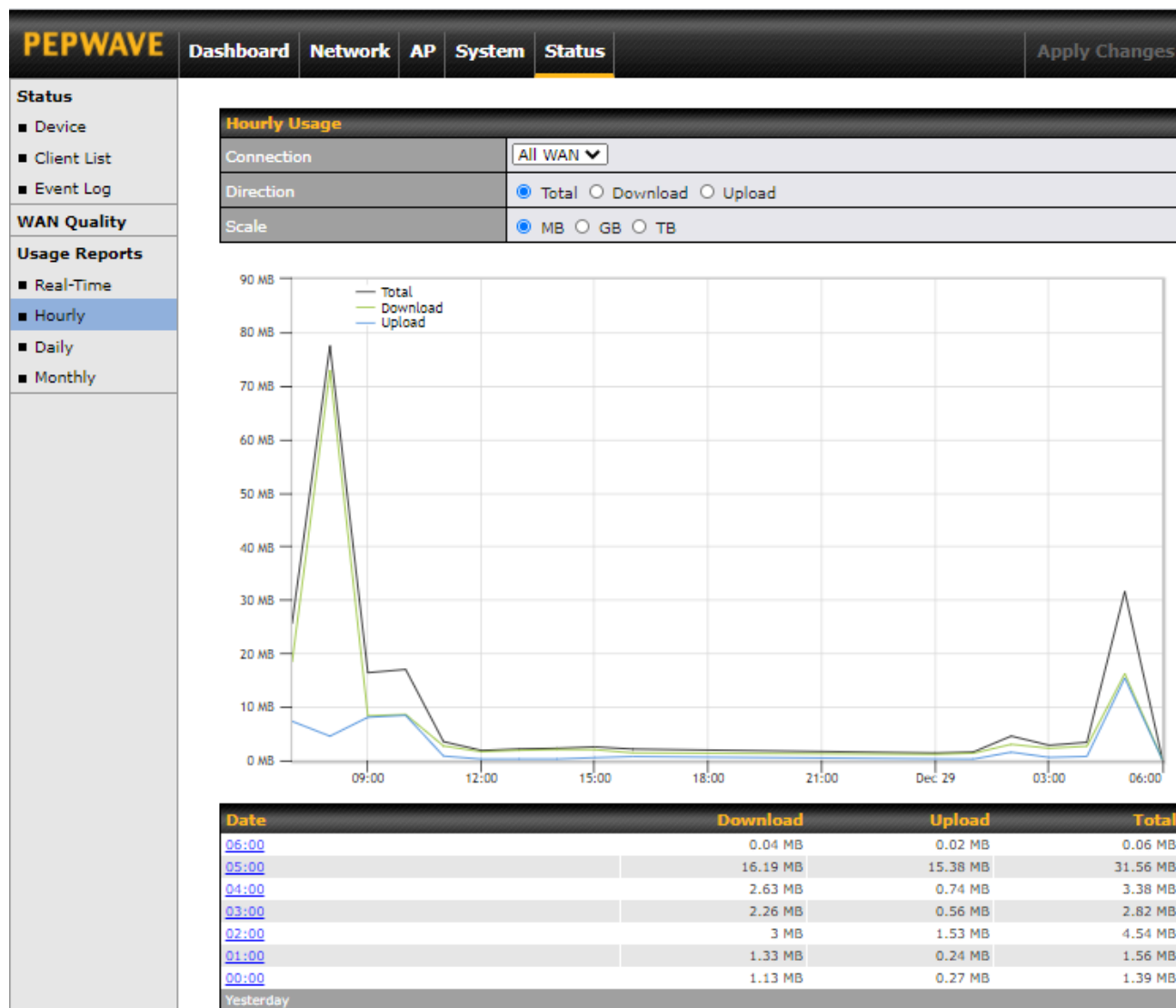
9.6.1 Real-Time



The **Data transferred since installation** table indicates how much network traffic has been

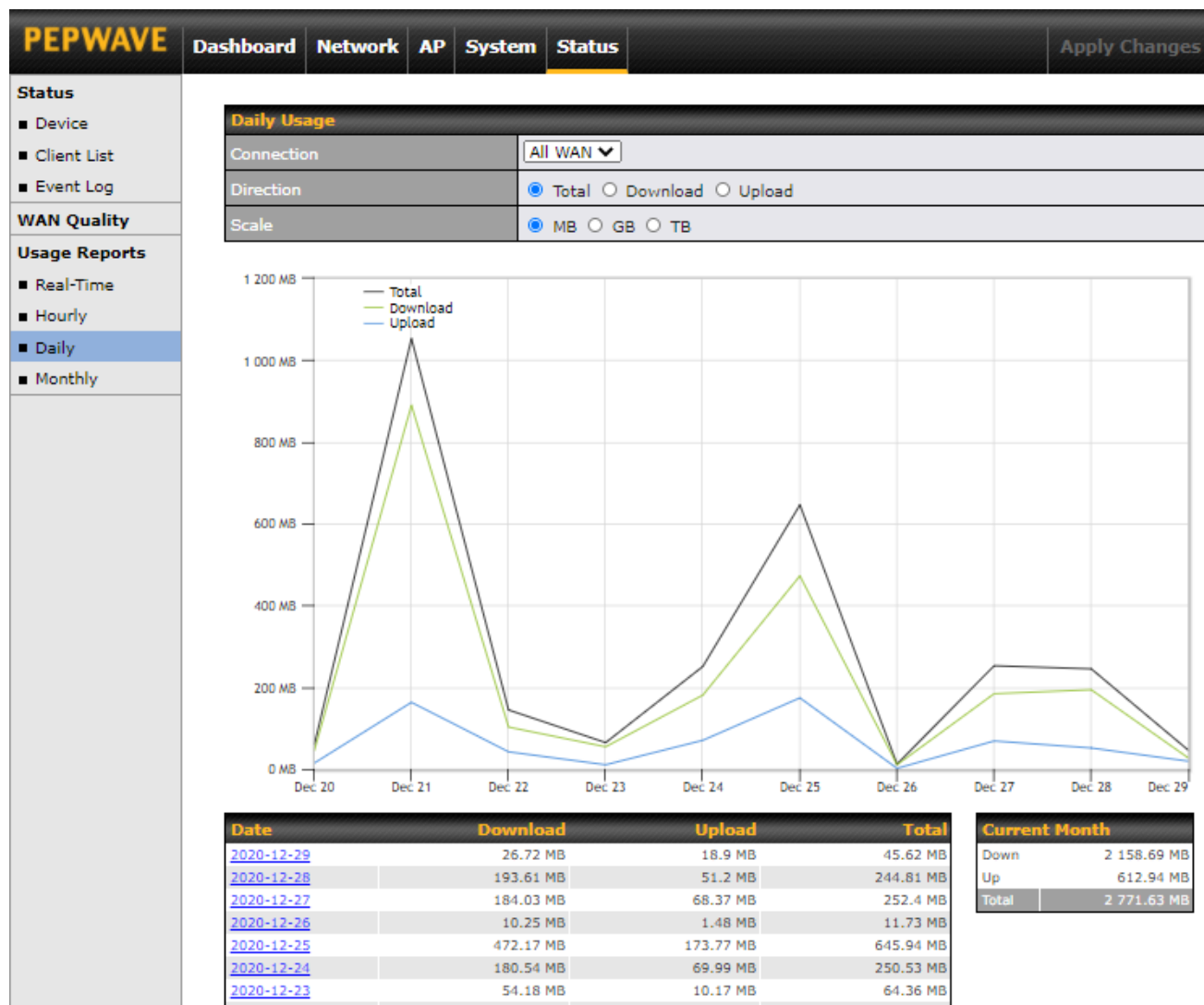
processed by the device since the first bootup. The **Data transferred since last reboot** table indicates how much network traffic has been processed by the device since the last boot up.

9.6.2 Hourly

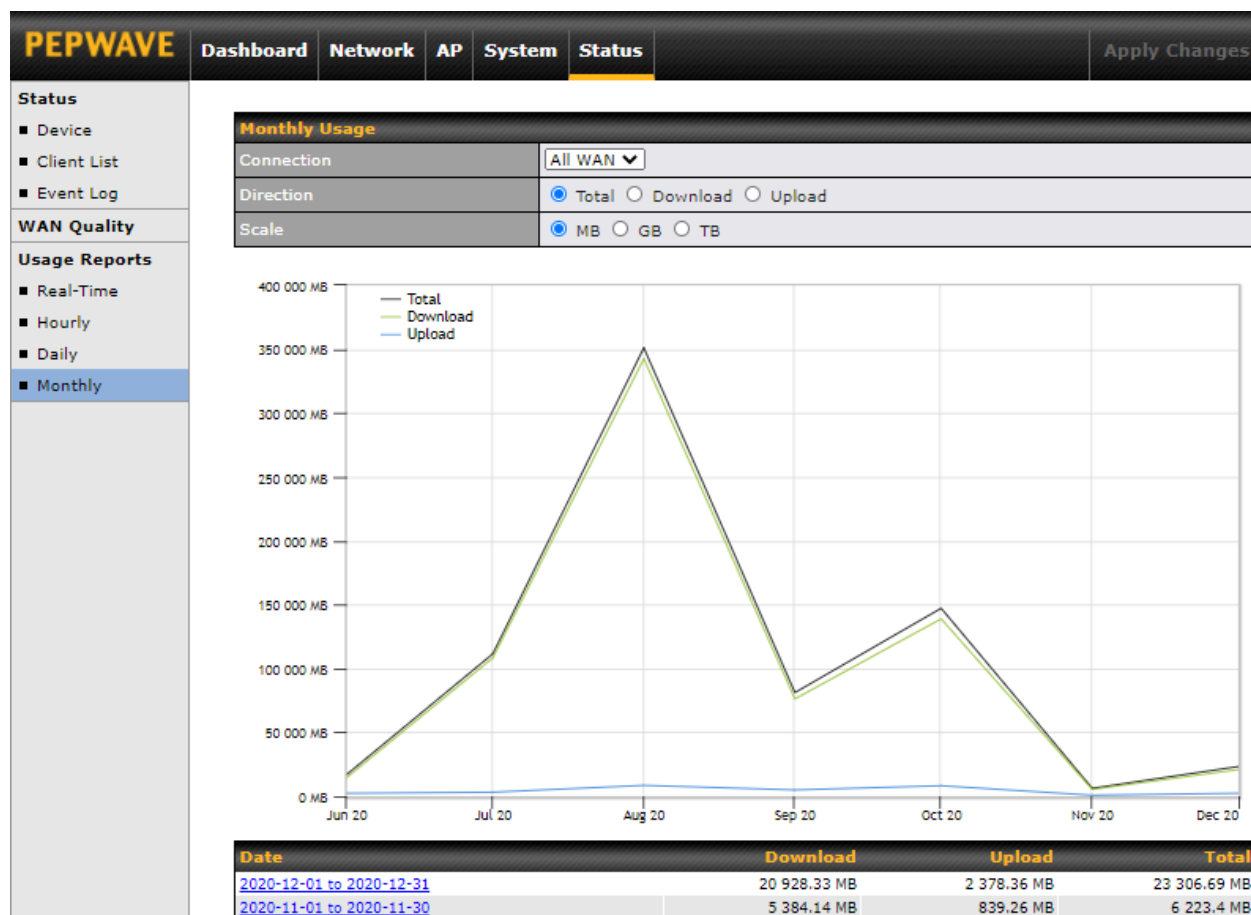


This page shows the hourly bandwidth usage for all WAN connections. Individual connections may be viewed by selecting the desired connection from the drop-down menu.

9.6.3 Daily



9.6.4 Monthly



This page shows the monthly bandwidth usage for each WAN connection. You can check the usage of each particular connection and view the information by **Billing Cycle** or by **Calendar Month**. Select the first two rows to view the client bandwidth usage for the last two months. The scale of the graph can be set to display megabytes (**MB**), gigabytes (**GB**), or terabytes (**TB**).

10 Restoring Factory Defaults

To restore the factory default settings on a Pepwave AP One router:

- Locate the reset button on the front or back panel of the router.
- Using a paperclip or similar tool, press and hold the reset button. The LED status light turns red.
- Continue holding for 10-15 seconds, until the LED status light turns off.
- Release the button. The LED status light turns back on, and the router reboots.

After the Pepwave AP One router finishes rebooting, the factory default settings will be restored.

Important Note

All previous configurations and bandwidth usage data will be lost after restoring factory default settings. Regular backup of configuration settings is strongly recommended.

11 Declaration

Ethernet Cables

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

Federal Communication Commission Interference Statement (AP One AX Lite)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

Industry Canada Statement (AP One AX Lite)

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le present produit est conforme aux specifications techniques applicables d'Innovation, Sciences et Developpement economique Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en

- (i) The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

The high-power radars are allocated as primary users (i.e. priority users) of the band 5725-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

- (i) Le dispositif fonctionnant dans la bande 5150-5250 MHz est reserve uniquement pour une utilisation a l'interieur afin de reduire les risques de brouillage prejudiciable aux systemes de satellites mobiles utilisant les memes canaux;

- (ii) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer a la limitation P.I.R.E specifiee pour l'exploitation point a point et non point a point, selon le cas.

En outre, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour la bande 5725-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement

This device complies with the ISED radiation exposure limit set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme avec l'exposition aux radiations ISED définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimum de 20 cm entre le radiateur et votre corps.

Federal Communication Commission Interference Statement (AP One AX)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

CE Statement for Peplink Access Point (AP One AX Lite)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Radio Equipment Directive 2014/53/EU.

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One AX Lite APO-AX-LITE Pepwave AP One AX Lite
Trade name of the appliance	

The construction of the appliance is in accordance with the following standards:

EN 301 893 V2.1.1
EN 300 328 V2.2.2
EN 50385: 2017
EN 301 489-1 V2.2.3
EN 301 489-17 V3.1.1
EN 55032: 2015 + A11:2020
EN 55035: 2017 + A11:2020
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 62368-1:2014 + A11:2017



Antony Chong
Director of Hardware Engineering

	AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SI	ES	SE	UK(NI)

2.4GHz (2412 - 2472 MHz) : 19.74 dBm

5GHz (5150 - 5250 MHz) : 22.94 dBm

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

This equipment is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range in above countries.

contact as: <https://www.peplink.com>

UK Statement for Peplink Access Point (AP One AX Lite)

UK DECLARATION OF CONFORMITY

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One AX Lite APO-AX-LITE Pepwave AP One AX Lite
Trade name of the appliance	

We declare under sole responsibilities that the above product conforms to the applicable requirements of following relevant UK legislation and designed standards.

UK legislation

Radio Equipment Regulations 2017

UK Designed Standard

EN 300 328 V2.2.2

EN 301 893 V2.1.1

EN 50385:2017

Other Standards Applied

EN 301 489-1 V2.2.3

EN 301 489-17 V3.1.1

EN 55032: 2015 + A11:2020

EN 55035: 2017 + A11:2020

EN 61000-3-2: 2014

EN 61000-3-3: 2013

EN 62368-1:2014 + A11:2017



Antony Chong
Director of Hardware Engineering

CE Statement for Peplink Access Point (AP One AX)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Radio Equipment Directive 2014/53/EU.

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One AX AP One ENT AX APO-ENT-AX APO-AX PRB-11AX Pepwave AP One AX Pepwave AP One Enterprise AX Peplink AP One AX Peplink AP One Enterprise AX AP One Enterprise AX
Trade name of the appliance	

The construction of the appliance is in accordance with the following standards:

EN 301 893 V2.1.1
EN 300 328 V2.2.2
EN 62311
EN 301 489-1 V2.2.3
Draft EN 301 489-17 V3.2.0
EN 55032: 2015 + AC:2016-07
EN 55035: 2017
EN IEC 61000-3-2: 2019
EN 61000-3-3: 2013+A1:2019
EN 62368-1:2014 + A11:2017



Antony Chong
Director of Hardware Engineering

	AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SI	ES	SE	UK(NI)

2.4GHz (2412 - 2472 MHz) : 19.87 dBm

5GHz (5150 - 5250 MHz) : 22.78 dBm

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

This equipment is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range in above countries.

contact as: <https://www.peplink.com/>

UK Statement for Peplink Access Point (AP One AX)

UK DECLARATION OF CONFORMITY

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One AX AP One ENT AX APO-ENT-AX APO-AX PRB-11AX Pepwave AP One AX Pepwave AP One Enterprise AX Peplink AP One AX Peplink AP One Enterprise AX AP One Enterprise AX
Trade name of the appliance	

We declare under sole responsibilities that the above product conforms to the applicable requirements of following relevant UK legislation and designed standards.

UK legislation

Radio Equipment Regulations 2017

UK Designed Standard

EN 300 328 V2.2.2
EN 301 893 V2.1.1

Other Standards Applied

EN 62311 (European Council Recommendation 1999/519/EC)
EN 301 489-1 V2.2.3
Draft EN 301 489-17 V3.2.0
EN 55032: 2015 + AC:2016-07
EN 55035: 2017
EN IEC 61000-3-2: 2019
EN 61000-3-3: 2013+A1:2019
EN 62368-1:2014 + A11:2017



Antony Chong
Director of Hardware Engineering

FCC Requirements for Operation in the United States

Federal Communications Commission (FCC) Compliance Notice:

For AP One Rugged HW2 (FCC ID: U8G-P1MT01)

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.

Industry Canada Statement (AP One Rugged, IC: 20682-P1MT01)

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le présent produit est conforme aux spécifications techniques applicables d'Innovation,

Sciences et Développement économique Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio ex-empts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en

(i) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; (detachable antenna only) ; and

The high-power radars are allocated as primary users (i.e. priority users) of the band 5725-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

(iii) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

(i) Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point, selon le cas.

En outre, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute

puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5725-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

(iii) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point.

Radiation Exposure Statement

This equipment complies with ISED 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.

Cet appareil doit être installé et utilisé avec une distance minimale de 20cm entre l'émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

This radio transmitter IC: 20682-P1MT01 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

WIFI Antenna type: Omni-directional

WIFI Antenna gain: 2.4GHz / 3.15 dBi

5150 ~ 5250 MHz / 3.29 dBi

5725 ~ 5850 MHz / 4.76 dBi

Cet émetteur radio IC : 20682-P1MT01 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antennes répertoriés cidessous, avec le gain maximal autorisé indiqué. Les types d'antenne non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement

interdits pour une utilisation avec cet appareil.

Type d'antenne WIFI : omnidirectionnelle

Gain de l'antenne Wi-Fi : 2.4 GHz / 3.15 dBi

5150 ~ 5250 MHz / 3.29 dBi

5725 ~ 5850 MHz / 4.76 dBi

VCCI Class A Statement

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

CE Statement for Peplink Access Point (AP One Rugged HW2)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Radio Equipment Directive 2014/53/EU.

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One Rugged APO-AC-RUG
Trade name of the appliance	

The construction of the appliance is in accordance with the following standards:

EN 300 328 V2.2.2
EN 301 893 V2.1.1
EN IEC 62311: 2020
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN 55032: 2015 + A11:2020
EN 55035: 2017 + A11:2020
EN 61000-3-2: 2019 + A1:2021
EN 61000-3-3: 2013 + A1:2019
EN IEC 62368-1:2020 + A11:2020



Antony Chong
Director of Hardware Engineering

	AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SI	ES	SE	UK(NI)

2.4GHz (2412 - 2472 MHz) : 19.95 dBm

5GHz (5150 - 5250 MHz) : 22.65 dBm

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

This equipment is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range in above countries.

contact as: <https://www.peplink.com/>

UK Statement for Peplink Access Point (AP One Rugged HW2)

UK DECLARATION OF CONFORMITY

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One Rugged APO-AC-RUG
Trade name of the appliance	

We declare under sole responsibilities that the above product conforms to the applicable requirements of following relevant UK legislation and designed standards.

UK legislation

Radio Equipment Regulations 2017

UK Designed Standard

EN 300 328 V2.2.2
EN 301 893 V2.1.1

Other Standards Applied

EN 62311: 2020
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN 55032: 2015 + A11:2020
EN 55035: 2017 + A11:2020
EN 61000-3-2: 2019 + A1:2021
EN 61000-3-3: 2013 + A1:2019
EN 62368-1:2020 + A11:2020



Antony Chong
Director of Hardware Engineering

Federal Communication Commission Interference Statement (AP Pro AX)

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.

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

Radiation Exposure Statement

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

Professional Installation Instruction

This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge and need to get the Peplink certified to install the product. The general user shall not attempt to install or change the settings.

Innovation, Science and Economic Development Canada Statement (AP Pro AX)

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le present produit est conforme aux specifications techniques applicables d'Innovation, Sciences et Developpement economique Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en

(i) The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

The high-power radars are allocated as primary users (i.e. priority users) of the band 5725-5850 MHz and that these radars could cause interference and/or damage to LE- LAN devices.

(i) Le dispositif fonctionnant dans la bande 5150-5250 MHz est reserve uniquement pour une utilisation a l'interieur afin de reduire les risques de brouillage prejudiciable aux systemes de satellites mobiles utilisant les memes canaux;

(ii) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer a la limitation P.I.R.E specifiee pour l'exploitation point a point et non point a point, selon le cas.

En outre, les utilisateurs devraient aussi etre avises que les utilisateurs de radars de haute puissance sont designes utilisateurs principaux (c.-a-d., qu'ils ont la priorite) pour les bande 5725-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement

This device complies with the ISED radiation exposure limit set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm

between the radiator & your body.

Cet équipement est conforme avec l'exposition aux radiations ISED définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimum de 20 cm entre le radiateur et votre corps.

CE Statement for Peplink Access Point (AP Pro AX)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Radio Equipment Directive 2014/53/EU.

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP Pro AX APP-AX-IP67
Trade name of the appliance	

The construction of the appliance is in accordance with the following standards:

EN 300 328 V2.2.2
EN 301 893 V2.1.1
EN IEC 62311:2020
EN 55032: 2015 + A11:2020
EN 55035: 2017 + A11:2020
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN 61000-3-2: 2014
EN IEC 61000-3-2: 2019 + A1:2021
EN 61000-3-3: 2013 + A1:2019+A2:2021
EN IEC 62368-1:2020 + A11:2020



Antony Chong
Director of Hardware Engineering

	AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SI	ES	SE	UK(NI)

2.4GHz (2412 - 2472 MHz) : 19.86 dBm

5GHz (5470 - 5725 MHz) : 29.66 dBm

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

contact as: <https://www.peplink.com/>

UK Statement for Peplink Access Point (AP Pro AX)

UK DECLARATION OF CONFORMITY

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP Pro AX APP-AX-IP67
Trade name of the appliance	

We declare under sole responsibilities that the above product conforms to the applicable requirements of following relevant UK legislation and designed standards.

UK legislation

Radio Equipment Regulations 2017

UK Designed Standard

EN 300 328 V2.2.2

EN 301 893 V2.1.1

Other Standards Applied

EN IEC 62311: 2020

EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

EN 55032: 2015 + A11:2020

EN 55035: 2017 + A11:2020

EN 61000-3-2: 2014

EN IEC 61000-3-2: 2019 + A1:2021

EN 61000-3-3: 2013 + A1:2019+A2:2021

EN IEC 62368-1:2020 + A11:2020



Antony Chong
Director of Hardware Engineering

FCC Requirements for Operation in the United States

Federal Communications Commission (FCC) Compliance Notice:

For AP One Mini

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 B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

Industry Canada Statement (AP One Mini)

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le présent produit est conforme aux spécifications techniques applicables d'Innovation, Sciences et Développement économique Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio ex-empts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en

(i) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; (detachable antenna only) ; and

The high-power radars are allocated as primary users (i.e. priority users) of the band 5725-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

(iii) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

(i) Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point, selon le cas.

En outre, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5725-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

(iii) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point.

Radiation Exposure Statement

This equipment complies with ISED 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.

Cet appareil doit être installé et utilisé avec une distance minimale de 20cm entre l'émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

This radio transmitter IC: 20682-P1MT12 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

WIFI Antenna type: PIFA

WIFI Antenna gain: 2.4GHz / 3.3 dBi

5150 ~ 5250 MHz / 3.3dBi

5725 ~ 5850 MHz / 3.9 dBi

Cet émetteur radio IC : 20682-P1MT12 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antennes répertoriés cidessous, avec le gain maximal autorisé indiqué. Les types d'antenne non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont strictement interdits pour une utilisation avec cet appareil.

Type d'antenne WIFI : PIFA

Gain de l'antenne Wi-Fi : 2.4 GHz / 3.3 dBi

5150 ~ 5250 MHz / 3.3 dBi

5725 ~ 5850 MHz / 3.9 dBi

NCC Statement

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

BSMI Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：Peplink Pepwave Wireless Product，型號（型式）：AP One Mini Equipment name		Type designation (Type)				
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
電子零件 及電路板	—	○	○	○	○	○
外殼	○	○	○	○	○	○
線材	○	○	○	○	○	○
金屬件	○	○	○	○	○	○
備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。 Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.						
備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.						
備考3. “—” 係指該項限用物質為排除項目。 Note 3 : The “—” indicates that the restricted substance corresponds to the exemption.						

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

For AP One Enterprise

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 B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

FCC regulations restrict the operation of this device to indoor use only.

This device is prohibited from being operated on oil platforms, cars, trains, boats, and aircraft, except it can be operated in large aircraft while flying above 10,000 feet in the

5.925-6.425 GHz band.

Transmitters in the 5.925-7.125 GHz band are prohibited from operating to control or communicate with unmanned aircraft systems.

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 47 cm between the radiator and your body.

Professional Installation Instruction

This product must be installed only by personnel who have completed Peplink training and obtained Peplink certification. The general user shall not attempt to install or change the settings.

Industry Canada Statement (AP One Enterprise)

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le présent produit est conforme aux spécifications techniques applicables d'Innovation, Sciences et Développement économique Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio ex-empts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le

brouillage est susceptible d'en

Devices shall not be used for control of or communications with unmanned aircraft systems.

Il est interdit d'utiliser ces appareils pour la commande ou la communication avec des systèmes d'aéronefs sans pilote.

Devices shall not be used on oil platforms, automobiles, trains and maritime vessels.

L'utilisation de ces appareils est interdite sur les plateformes pétrolières, les automobiles, les trains et les navires.

Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).

L'utilisation de ces appareils est interdite à bord des aéronefs, à l'exception des points d'accès intérieurs à faible puissance, des dispositifs subordonnés intérieurs, des dispositifs clients à faible puissance et des dispositifs à très faible puissance fonctionnant dans la bande 5 925-6 425 MHz, qui peuvent être utilisés à bord des gros aéronefs, tels que définis dans le Règlement de l'aviation canadien, lorsqu'ils volent à une altitude supérieure à 3 048 mètres (10 000 pieds).

(i) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potent for harmful interference to co-channel mobile satellite systems;

DFS (Dynamic Frequency Selection) products that operate in the bands 5250- 5350 MHz, 5470-5600MHz, and 5650-5725MHz.

(i) Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Les produits utilisant la technique d'atténuation DFS (sélection dynamique des réquences) sur les bandes 5250- 5350 MHz, 5470-5600MHz et 5650-5725MHz.

Radiation Exposure Statement

This equipment complies with ISED RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 27 cm between the radiator and your body.

Cet appareil doit être installé et utilisé avec une distance minimale de 27cm entre l'émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

This radio transmitter IC: 20682-P1BE08 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

WIFI Antenna type: PIFA

WIFI Antenna gain: 2.4GHz / 2.82 dBi

5150 ~ 5250 MHz / 5.06 dBi

5250 ~ 5350 MHz / 5.29 dBi

5470 ~ 5725 MHz / 5.45 dBi

5725 ~ 5850 MHz / 5.17 dBi

WIFI Antenna type: Alford loop Antenna

WIFI Antenna gain:

5925 ~ 6425 MHz / 4.96 dBi

6425 ~ 6525 MHz / 4.99 dBi

6525 ~ 6875 MHz / 4.98 dBi

6875 ~ 7125 MHz / 4.94 dBi

Cet émetteur radio IC : 20682-P1BE08 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antennes répertoriés ci-dessous, avec le gain maximal autorisé indiqué. Les types d'antenne non inclus dans ce liste qui ont un gain supérieur au gain maximum indiqué pour tout type répertorié sont

strictement interdits pour une utilisation avec cet appareil.

Type d'antenne WIFI : PIFA

Gain de l'antenne Wi-Fi : 2.4 GHz / 2.82 dBi

5150 ~ 5250 MHz / 5.06 dBi

5250 ~ 5350 MHz / 5.29 dBi

5470 ~ 5725 MHz / 5.45 dBi

5725 ~ 5850 MHz / 5.17 dBi

WIFI Antenna type: Alford loop Antenna

WIFI Antenna gain:

5925 ~ 6425 MHz / 4.96 dBi

6425 ~ 6525 MHz / 4.99 dBi

6525 ~ 6875 MHz / 4.98 dBi

6875 ~ 7125 MHz / 4.94 dBi

CE Statement for Peplink Access Point (AP One Enterprise)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Radio Equipment Directive 2014/53/EU.

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One Enterprise APO-ENTR
Trade name of the appliance	

The construction of the appliance is in accordance with the following standards:

EN 300 328 V2.2.2
EN 301 893 V2.2.1
EN 300 440 V.2.2.1
EN 303 687 V1.1.1
EN IEC 62311:2020
EN 50665:2017
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1
EN 55032: 2015+A1:2020
EN 55032: 2015+A11:2020
EN 55035: 2017+A11:2020
EN IEC 61000-3-2: 2019+A1:2021+A2:2024
EN 61000-3-3: 2013+A2:2021+AC:2022-01
EN IEC 62368-1:2020+A11:2020
EN IEC 62368-1:2024+A11:2024



Antony Chong
Director of Hardware Engineering

	AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SI	ES	SE	UK(NI)

2.4GHz (2412 - 2472 MHz) : 19.93 dBm

5GHz (5150 - 5350 MHz) : 22.97 dBm

5GHz (5470 - 5725 MHz) : 29.92 dBm

5GHz (5725 - 5875 MHz) : 13.97 dBm

6GHz (5945 - 6425 MHz) : 22.98 dBm

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

This equipment is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range in above countries.

contact as: <https://www.peplink.com/>

UK Statement for Peplink Access Point (AP One Enterprise)

UK DECLARATION OF CONFORMITY

Name of manufacturer	Pepwave International Limited
Contact information of the manufacturer	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Pepwave Wireless Product
Model name of the appliance	AP One Enterprise APO-ENTR
Trade name of the appliance	

We declare under sole responsibilities that the above product conforms to the applicable requirements of following relevant UK legislation and designed standards.

UK legislation

Radio Equipment Regulations 2017

UK Designed Standard

EN 300 328 V2.2.2
EN 301 893 V2.2.1
EN 300 440 V.2.2.1
EN 303 687 V1.1.1

Other Standards Applied

EN IEC 62311:2020
EN 50665:2017
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1
EN 55032: 2015+A1:2020
EN 55032: 2015+A11:2020
EN 55035: 2017+A11:2020
EN IEC 61000-3-2: 2019+A1:2021+A2:2024
EN 61000-3-3: 2013+A2:2021+AC:2022-01
EN IEC 62368-1:2020+A11:2020
EN IEC 62368-1:2024+A11:2024



Antony Chong
Director of Hardware Engineering

12 UK PSTI Statement of Compliance

For AP One Mini

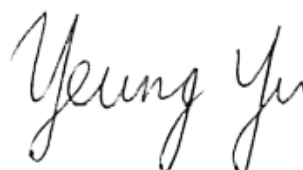
PSTI Statement of Compliance

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	Pepwave AP One Mini Peplink AP One Mini
Model	AP One Mini
Defined Support Period	5 years up to product's end-of-life date
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP Pro AX

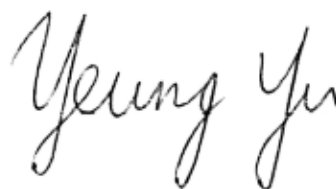
PSTI Statement of Compliance

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	Pepwave AP Pro AX
Model	AP Pro AX
Defined Support Period	5 years up to product's end-of-life date
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One AX

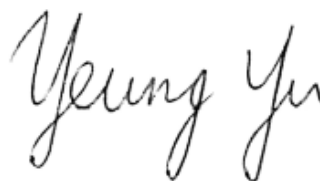
PSTI Statement of Compliance

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	Pepwave AP One AX Peplink AP One AX
Model	AP One AX
Defined Support Period	5 years up to product's end-of-life date
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One AX Lite

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	Pepwave AP One AX Lite Peplink AP One AX Lite
Model	AP One AX Lite
Defined Support Period	5 years up to product's end-of-life date
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One Rugged

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 AP One Rugged
Model	AP One Rugged
Defined Support Period	5 years up to product's end-of-life date
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One Enterprise

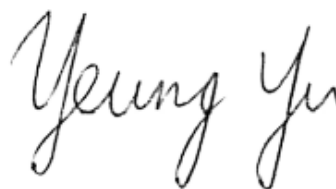
PSTI Statement of Compliance

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 AP One Enterprise
Model	AP One Enterprise
Defined Support Period	5 years up to product's end-of-life date
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 5 June 2026

13 EU Cybersecurity Declaration of Conformity

For AP One Mini

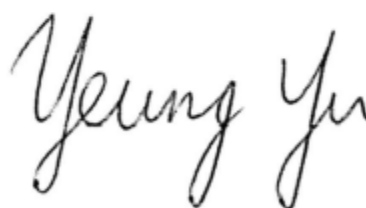
EU Declaration of Conformity

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	AP One Mini APO-AC-MINI
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP Pro AX

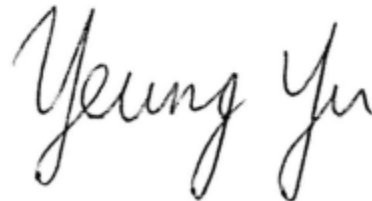
EU Declaration of Conformity

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	AP Pro AX APP-AX-IP67
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One AX

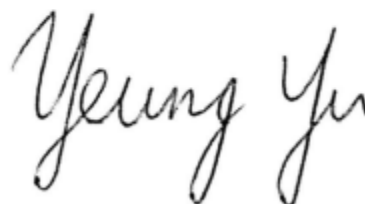
EU Declaration of Conformity

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	PEPWAVE / PEPLINK Wireless Product
Model	AP One AX APO-AX
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One AX Lite

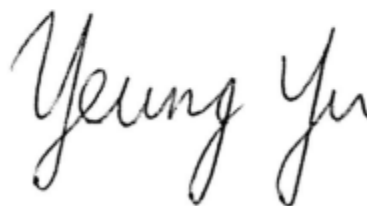
EU Declaration of Conformity

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	PEPWAVE / PEPLINK Wireless Product
Model	AP One AX Lite APO-AX-LITE
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One Rugged

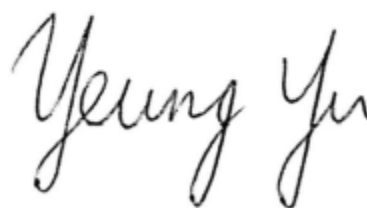
EU Declaration of Conformity

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	AP One Rugged APO-AC-RUG
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

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 10 April 2026

For AP One Enterprise

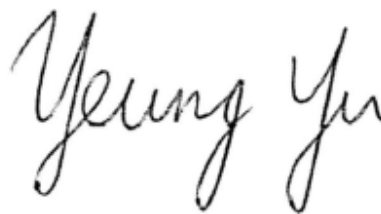
EU Declaration of Conformity

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	AP One Enterprise APO-ENTR
Manufacturer Name	Pepwave International Limited
Manufacturer Address	Unit A5, 5/F Spinners HK Industrial Building Phase 6, 481 Castle Peak Road, Cheung Sha Wan HK

The essential requirement of the legislation with the following standard(s):

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



Eddy Yeung
Director for Software Engineering
Issued from Hong Kong
On 5 June 2026