Peplink SD Switch

User Manual

SD Switch Rugged 8-Port/16-Port/24-Port
SD Switch Enterprise 24-Port/48-Port

Peplink SD Switch Firmware 1.3.0
July 2023

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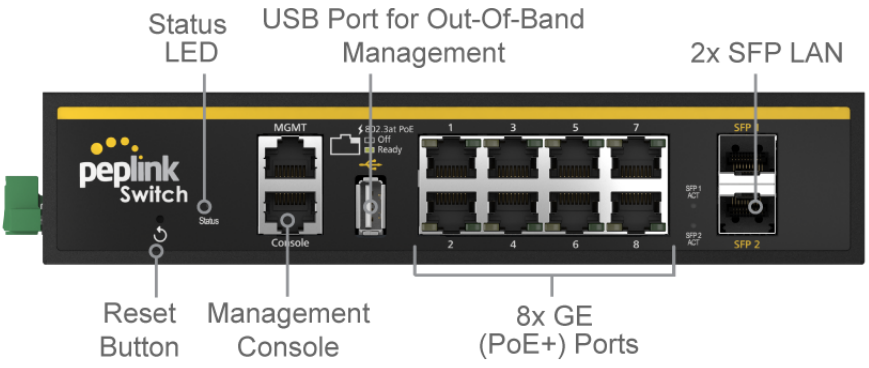
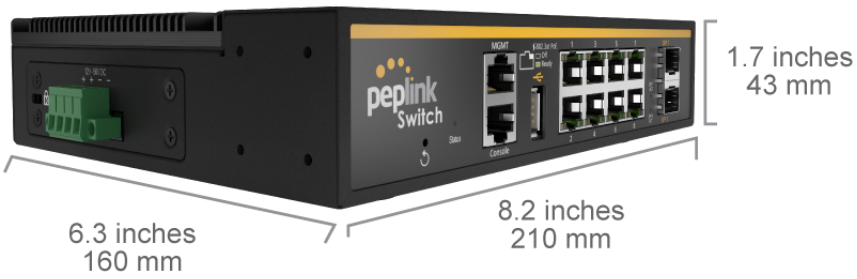
Introduction and Scope

The Peplink SD Switch range is fully managed, PoE+ Gigabit switches with Cloud Intelligence to allow easy configuration and troubleshooting.
Switch management is hosted on our InControl cloud management platform (public and private versions available) to allow you to configure your switch from any web browser.
Simplify management and cut down maintenance time by unifying your VLAN management across all your Peplink devices (routers and switches).
Peplink SD switches are available with 8, 16, 24, or 48 PoE Gigabit Ethernet ports.

Models & Specifications

SD Switch 8-Port Rugged





SD Switch 8-Port Rugged Specifications	
LAN Interface	8x 802.3at (PoE+) GE Ports 2x SFP Ports
VLAN Groups	Yes
Fiber Module	2x 1 Gbps
AC Adapter	AC Input 100V-240V DC Output 54V#
Power Input	DC Power DIN 2x 54V Terminal Block: 12V - 56V DC
Power Consumption	20W System, 90W PoE+ Power Budget (supports up to 240W#)
Dimensions (L x W x H)	8.2 x 6.3 x 1.7 inches 210 x 160 x 43 mm
Weight	2.2 pounds 1 kg
Operating Temperature	-40° – 149°F -40° – 65°C
Humidity	15% - 95% (non-condensing)
Warranty	1-Year limited Warranty

The bundled PSU provides 90W of PoE power budget. If you require 240W of power budget, please add 180W PSU (ACW-623) to your device

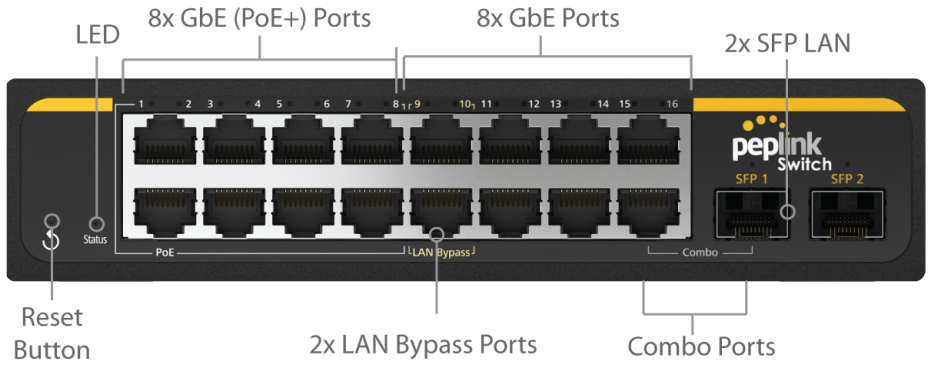
LED Indicators:

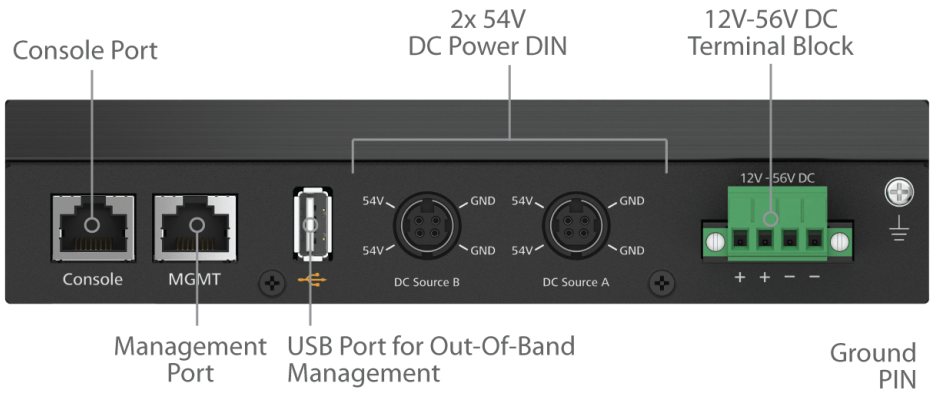
Status Indicators		
Status	OFF	No power
	Red	Booting up
	Blinking Red	Boot up error
	Green	Ready
	Blinking Green	Firmware upgrade in progress

Ethernet Ports		
Right Green	OFF	PoE disabled
	ON	PoE enabled
Left Orange	OFF	Port is not connected
	Blinking	Data is transferring
	ON	Port is connected without traffic

Reset Button	
Password Reset	Hold for **5-9** seconds for admin password reset. The LED status light blinks in RED and after releasing the button, green status light starts blinking.
Factory Reset	Hold for more than **10** seconds for factory reset. The LED status light blinks in RED and after releasing the button.

SD Switch 16-Port Rugged





SD Switch 16-Port Rugged Specifications	
LAN Interface	8x 802.3at (PoE+) GE Ports, 8x GE Ports 2x SFP Ports
VLAN Groups	Yes
Fiber Module:	2x 1 Gbps
Power Input	AC Input 100V-240V DC Output 54V#
Power Consumption	20W System, 90W PoE+ Power Budget (supports up to 240W#)
Dimensions (L x W x H)	7.5 x 9.0 x 1.5 inches 190 x 226 x 35 mm
Weight	4.4 pounds 2 kg
Operating Temperature	-40° – 149°F -40° – 65°C
Humidity	15% - 95% (non-condensing)
Warranty	1-Year limited Warranty

The bundled PSU provides 90W of PoE power budget. If you require 240W of power budget, please add 180W PSU (ACW-623) to your device

LED Indicators:

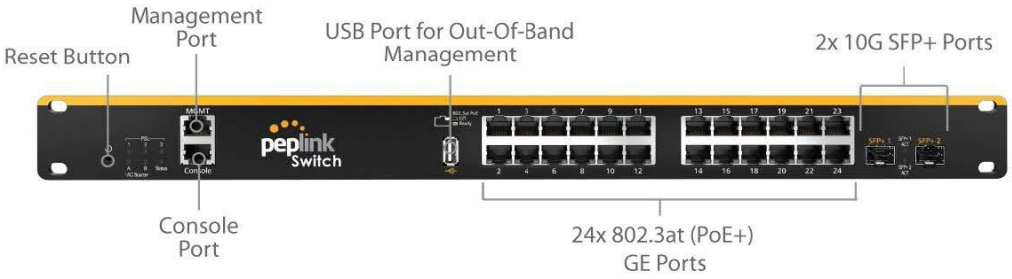
Status Indicators		
Status	OFF	No power
	Red	Booting up
	Blinking Red	Boot up error
	Green	Ready
	Blinking Green	Firmware upgrade in progress

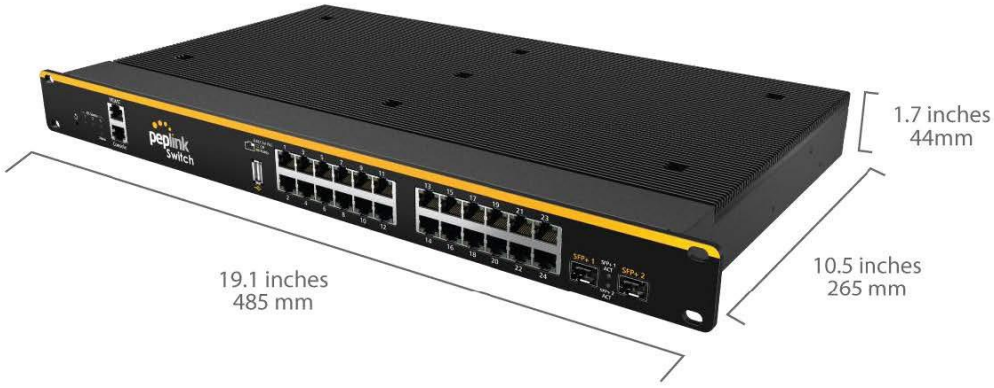
Ethernet Ports		
Right Green	OFF	PoE disabled
	ON	PoE enabled
Left Orange	OFF	Port is not connected
	Blinking	Data is transferring
	ON	Port is connected without traffic

SFT Ports	
OFF	Port is not connected
Blinking	Data is transferring
ON	Port is connected without traffic

Reset Button	
Password Reset	Hold for **5-9** seconds for admin password reset. The LED status light blinks in RED and after releasing the button, green status light starts blinking.
Factory Reset	Hold for more than **10** seconds for factory reset. The LED status light blinks in RED and after releasing the button.

SD Switch 24-Port Rugged





SD Switch 24-Port Rugged Specifications	
LAN Interface	24x 802.3at (PoE+) GE Ports, 2x SFP+ Ports
VLAN Groups	Yes
Fiber Module:	2x 10 Gbps
Power Input	Redundant DC Power DIN: 54V Terminal Block: 12V - 54V DC%
Power Consumption	50W System, 120W PoE+ Power Budget (supports up to 250W%)
Dimensions (L x W x H)	10.5 x 19.1 x 1.7 inches 265 x 485 x 45mm
Weight	11.3 pounds 5.14 kg
Operating Temperature	-40° – 149°F -40° – 65°C
Humidity	15% - 95% (non-condensing)
Warranty	1-Year limited Warranty

% The bundled PSU provides 120W of PoE power budget. If you require 250W of power budget, please add 180W PSU (ACW-623) to your device

LED Indicators:

Status Indicators		
Status	OFF	No power
	Red	Booting up
	Blinking Red	Boot up error
	Green	Ready
	Blinking Green	Firmware upgrade in progress

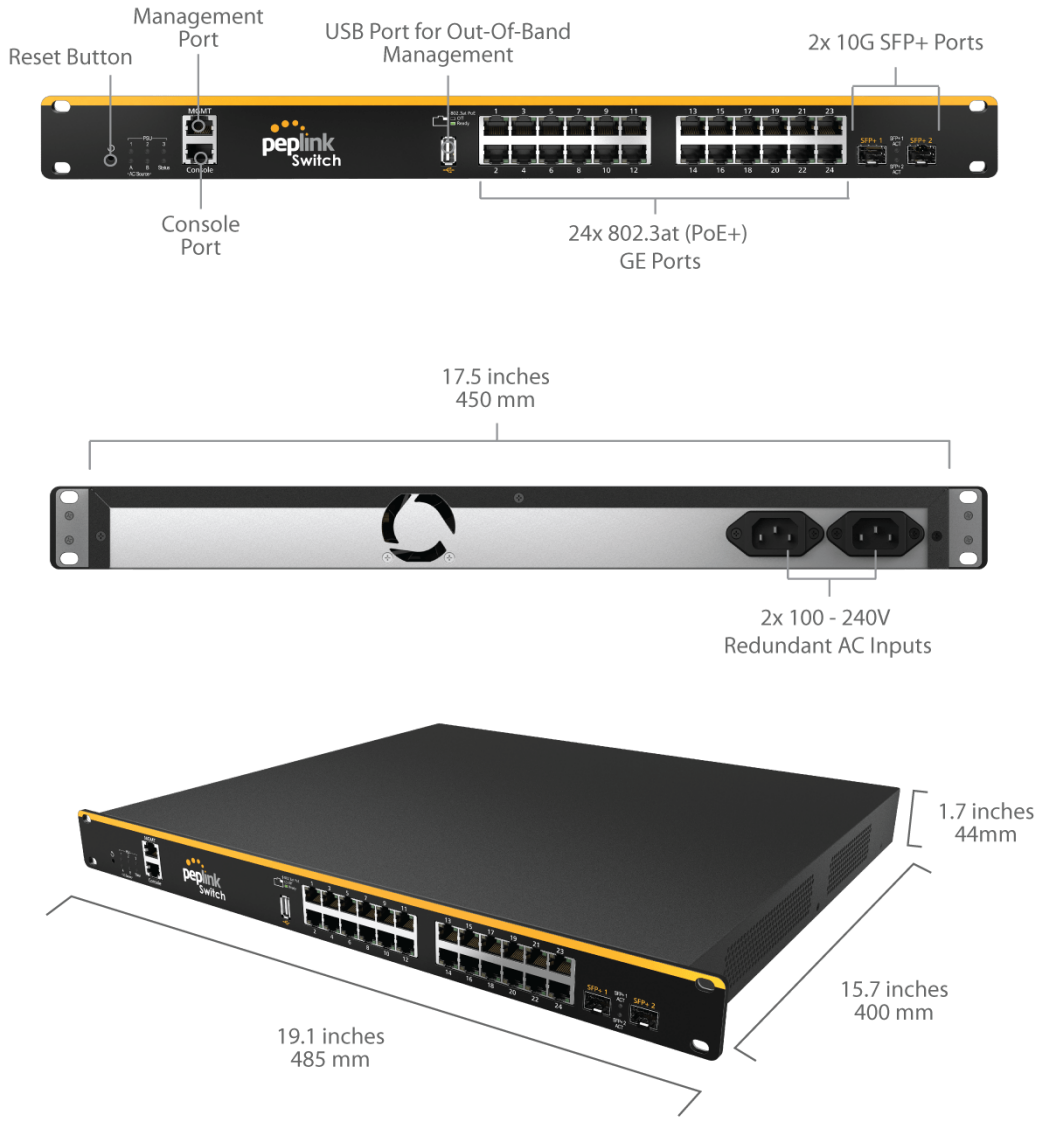
DC source
Indicate connected power source. 1, 2 DIN connectors, 3 - terminal block connector.

Ethernet Ports		
Right Green	OFF	PoE disabled
	ON	PoE enabled
Left Orange	OFF	Port is not connected
	Blinking	Data is transferring
	ON	Port is connected without traffic

SFT Ports	
OFF	Port is not connected
Blinking	Data is transferring
ON	Port is connected without traffic

Reset Button	
Password Reset	Hold for **5-9** seconds for admin password reset. The LED status light blinks in RED and after releasing the button, green status light starts blinking.
Factory Reset	Hold for more than **10** seconds for factory reset. The LED status light blinks in RED and after releasing the button.

SD Switch 24-Port Enterprise



SD Switch 24-Port Enterprise Specifications	
LAN Interface	24x 802.3at (PoE+) GE Ports, 2x SFP+ Ports
VLAN Groups	Yes
Power Input	2x 100V – 240V AC Input, With Power Redundancy
Integrated Power Source	850W: 3x Redundant PSU 550W: 2x Redundant PSU
Power Consumption	50W System, 850W or 550W PoE+ Power Budget
Dimensions	19.1 x 15.7 x 1.7 inches 485 x 400 x 45 mm
Weight	13.7 pounds 6.2 kg
Operating Temperature	32° – 104°F 0° – 40°C
Humidity	15% - 95% (non-condensing)
Warranty	1-Year limited Warranty

LED Indicators:

Status Indicators		
Status	OFF	No power
	Red	Booting up
	Blinking Red	Boot up error
	Green	Ready
	Blinking Green	Firmware upgrade in progress

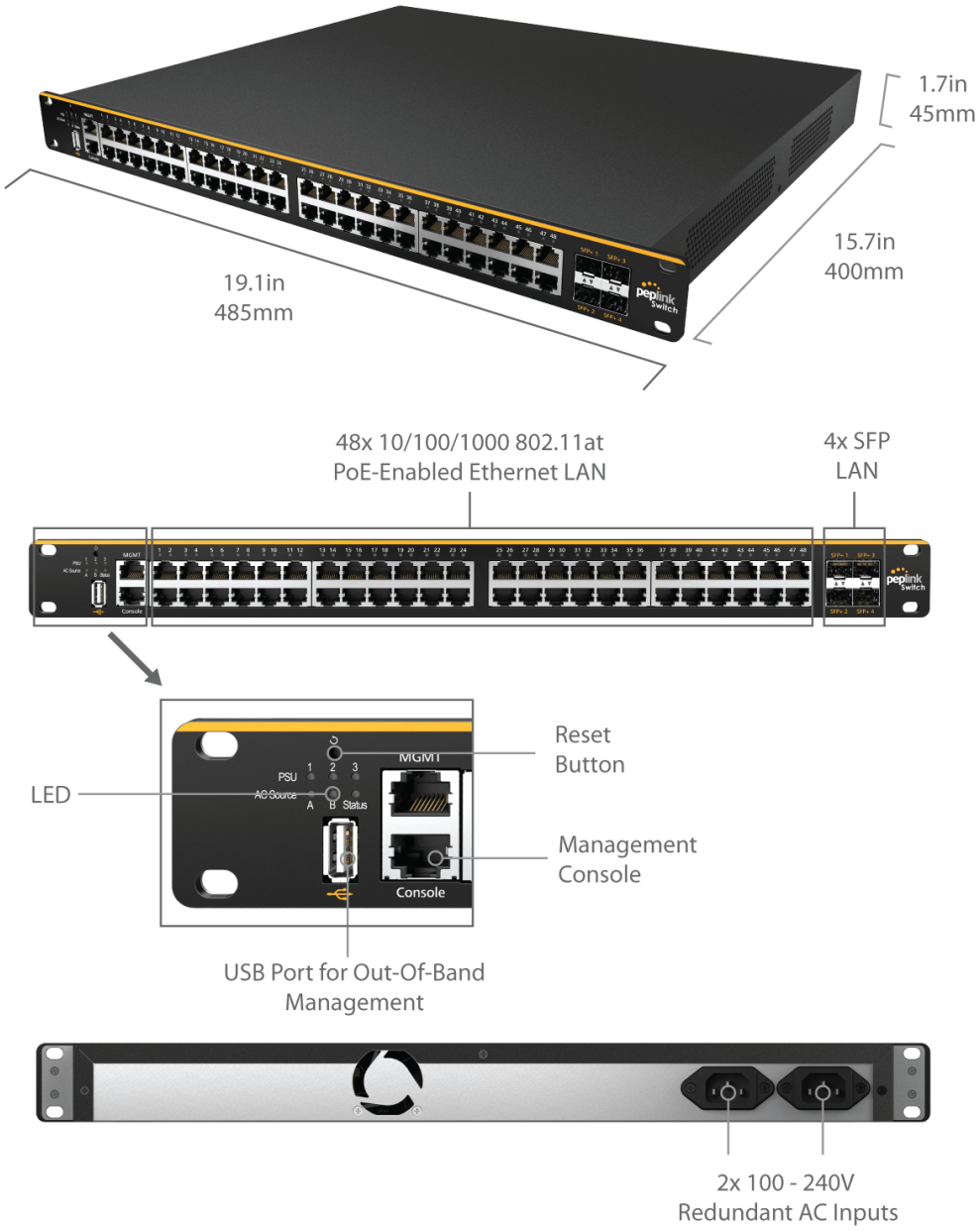
PSU
1, 2 and 3 indicate the internal three PSU power supply availability. In case at least one LED is OFF it indicates internal PSU failure
A and B indicate the two AC power cord connection

Ethernet Ports		
Right Green	OFF	PoE disabled
	ON	PoE enabled
Left Orange	OFF	Port is not connected
	Blinking	Data is transferring
	ON	Port is connected without traffic

SFT Ports	
OFF	Port is not connected
Blinking	Data is transferring
ON	Port is connected without traffic

Reset Button	
Password Reset	Hold for **5-9** seconds for admin password reset. The LED status light blinks in RED and after releasing the button, green status light starts blinking.
Factory Reset	Hold for more than **10** seconds for factory reset. The LED status light blinks in RED and after releasing the button.

SD Switch 48-Port Enterprise



SD Switch 48-Port Enterprise Specifications	
LAN Interface	48x 802.3at (PoE+) GE Ports, 4x SFP+ Ports
VLAN Groups	Yes
Fiber Module	4x 10 Gbps
Power Input	2x 100V – 240V AC Input, With Power Redundancy
Integrated Power source	3 x Redundant PSU
Power Consumption	100W System, 800W PoE+ Power Budget
Dimensions	19.1 x 15.7 x 1.7 inches 485 x 400 x 45 mm(L x W x H)
Weight	15.4 pounds 7.0 kg
Operating Temperature	32° - 104° F 0° - 40° C
Humidity	15% - 95% (non-condensing)
Warranty	1-Year limited Warranty

LED Indicators:

Status Indicators		
Status	OFF	No power
	Red	Booting up
	Blinking Red	Boot up error
	Green	Ready
	Blinking Green	Firmware upgrade in progress

PSU
1, 2 and 3 indicate the internal three PSU power supply availability. In case at least one LED is OFF it indicates internal PSU failure
A and B indicate the two AC power cord connection

Ethernet Ports		
Green	OFF	PoE disabled
	ON	PoE enabled
Orange	OFF	Port is not connected
	Blinking	Data is transferring
	ON	Port is connected without traffic

SFT Ports	
OFF	Port is not connected
Blinking	Data is transferring
ON	Port is connected without traffic

Reset Button	
Password Reset	Hold for **5-9** seconds for admin password reset. The LED status light blinks in RED and after releasing the button, green status light starts blinking.
Factory Reset	Hold for more than **10** seconds for factory reset. The LED status light blinks in RED and after releasing the button.

Features

Networking

- Link Aggregation (LACP)
- Spanning Tree Protocol
- Port mirroring
- Inter-VLAN routing
- DHCP snooping
- Ingress Access Control LIst
- IEEE 802.1X Port-Based Authentication
- LAN Bypass (supported on 16 port switch only)
- IGMP

Hardware

- Power Input Redundancy
- PoE+ Compatible Ports

Power Management

- Multiple Power Inputs
- Port Scheduling
- Essential Port Designation
- True Power Consumption Reporting

Device Management

- Web Administrative Interface
- InControl Cloud Management
- Email Notification
- Syslog Service
- Out-of-Band management (through USB modem and Console)

* LAN Bypass (available on 16 port switch only) is a fault-tolerance feature that protects your essential business communications in the event of a failure. The switch ports will be bridged together in case of a power outage or hardware failure and the switch will still continue to pass traffic preventing an outage of the switch to take down other elements in the network.

Quick Start for Key Functions

Connecting Ethernet Interfaces

Connect an RJ45 cable from an Internet-enabled router to a port on the Peplink SD Switch.
The uplink port can be either an ethernet or SFP port.
Connect an RJ45 cable from any client device to a port on the Peplink SD Switch.

Connecting SFP/SFP+ Interfaces

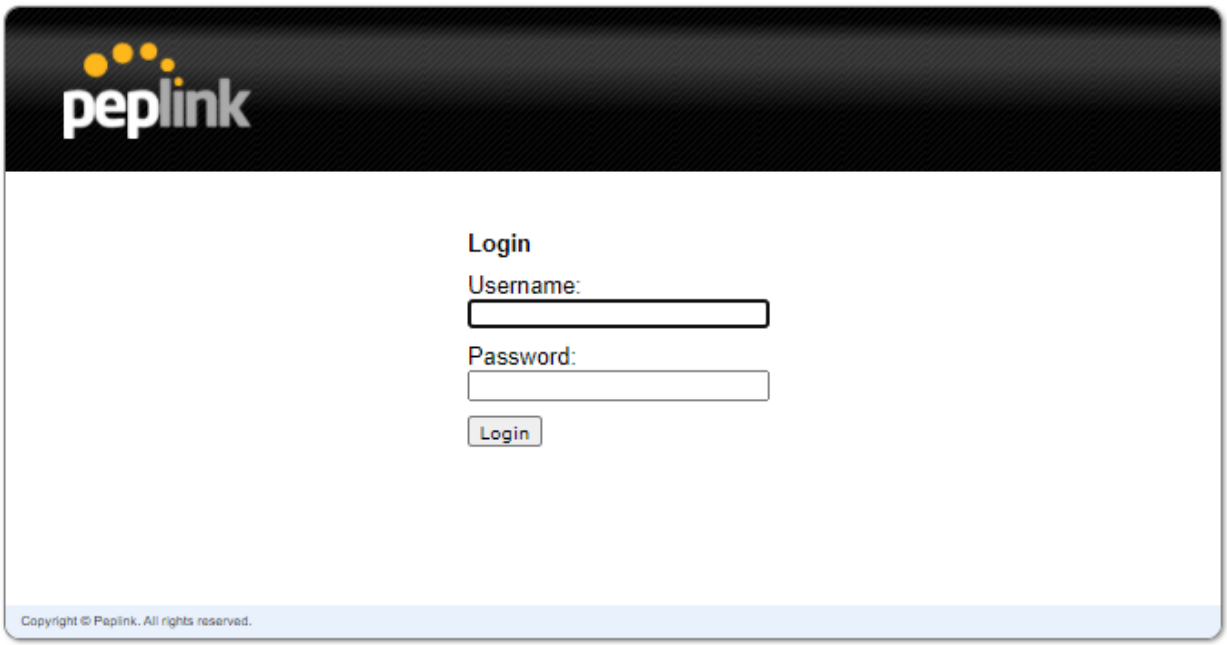
Remove the protective plastic cover from the SFP/SFP+ port.
Plug a compatible fiber module into the SFP/SFP+ port.*
A list of compatible and tested SFP/SFP+ modules can be found in this forum post.
The list of SFP/SFP+ modules is not limited to the above list, but haven't been tested.

* "SFP+" for 24/48 ports model
"SFP" for 8 and 16 ports model.

Connect to the Management Port

The management port is designed for Out-of-Band management.
The SD-Switch can be managed via this port only by default.
The management Port IP address is 192.168.1.254/24

Connect an RJ45 to the management port and a client device.
Configure the client device with an IP address in the 192.168.1.0/24 range.
Open a web browser and enter the default IP address of the management port in the address field of the web browser (http://192.168.1.254) to access the web interface of the Peplink Switch.



Login with the default credentials:

Username: admin
Password: admin

(This is the default admin user login of the Peplink SD Switch The admin and read-only user password can be changed at **System>Admin Security**.)

Connect to the Console Port

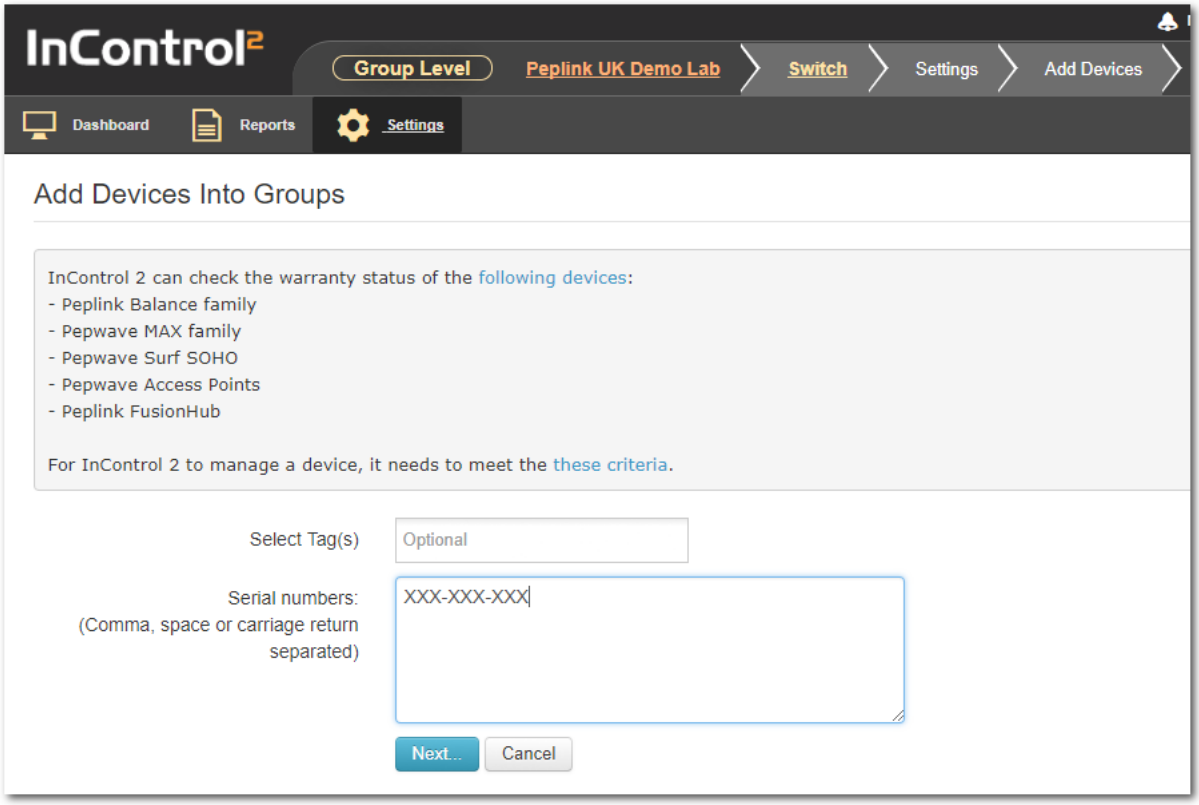
Access the SD-Switch via this port with CLI to get the status and info of the switch.
This is currently under development.

InControl Configuration

There are two ways to configure the Peplink Switch. Through InControl, Peplink's cloud-based device management and monitoring application, or through the web admin interface.
This section describes an overview of the InControl settings and information specific to the Peplink Switch.
For a complete overview of InControl options, please refer to our InControl documentation.

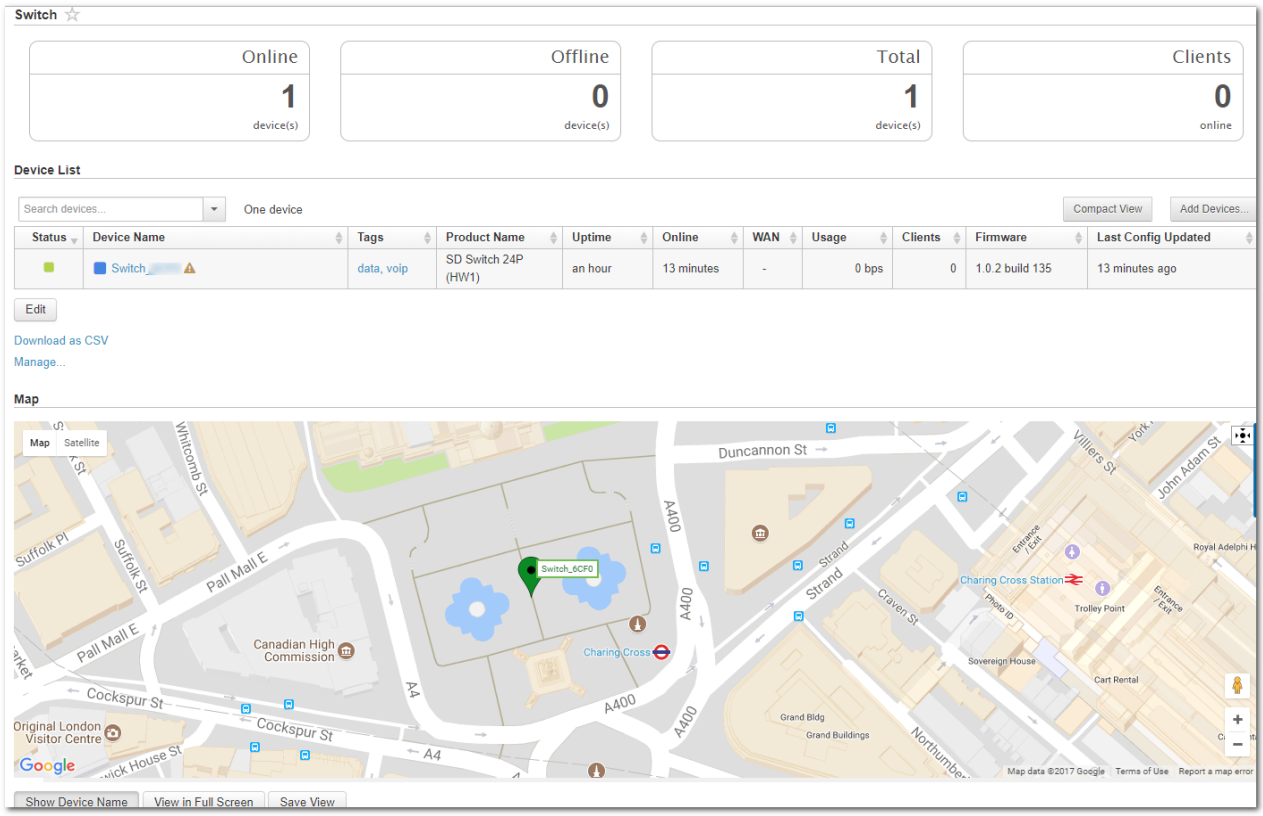
Add the Switch to InControl

1: Logon to InControl and create a separate group for your Peplink switch. Add the switch serial number and follow the onscreen instructions.



2: Connect an active ethernet connection to one of the numbered switch ports 1 to 24.

3: The Switch will show online in InControl if InControl management is enabled on the switch and the switch is able to connect to the InControl servers (the marker on the map will change from red to green).

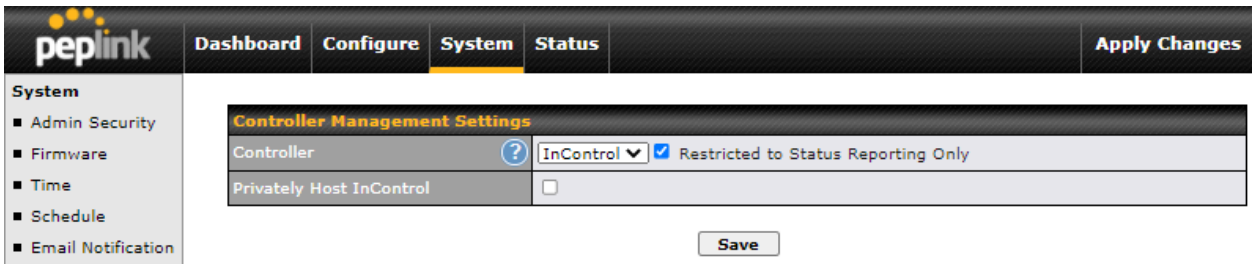


Tip: If a device appears offline in InControl ,check the following knowledge base article for a solution: https://forum.peplink.com/t/faq-why-does-my-device-appear-offline-on-incontrol-2-even-though-the-device-has-an-internet-connection/

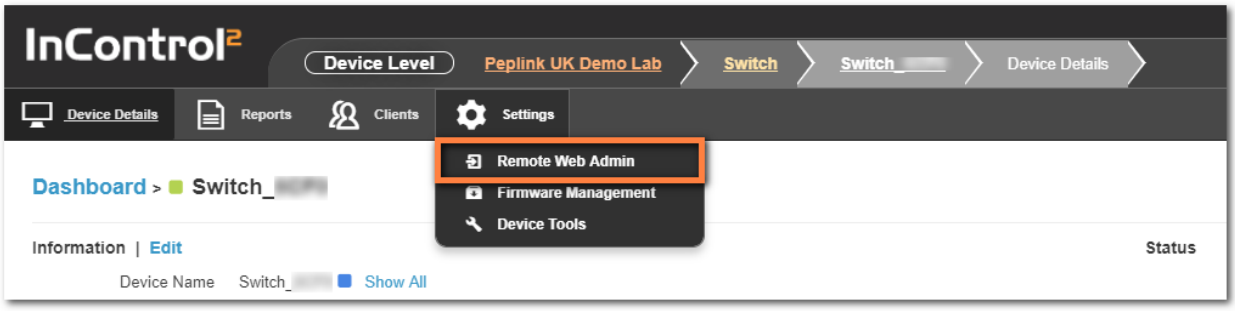
Enable InControl Cloud Management on the Switch

InControl management needs to be enabled to allow the Peplink Switch to be configured through InControl.This setting is enabled by default.

The settings can be changed in the local web interface of the Switch.
In Incontrol, browse to the Device Details page.
If it is not online, log on to the local web admin interface of the switch as described above.
Navigate to **System > InControl**, and then click the "**Allow InControl Management**" button



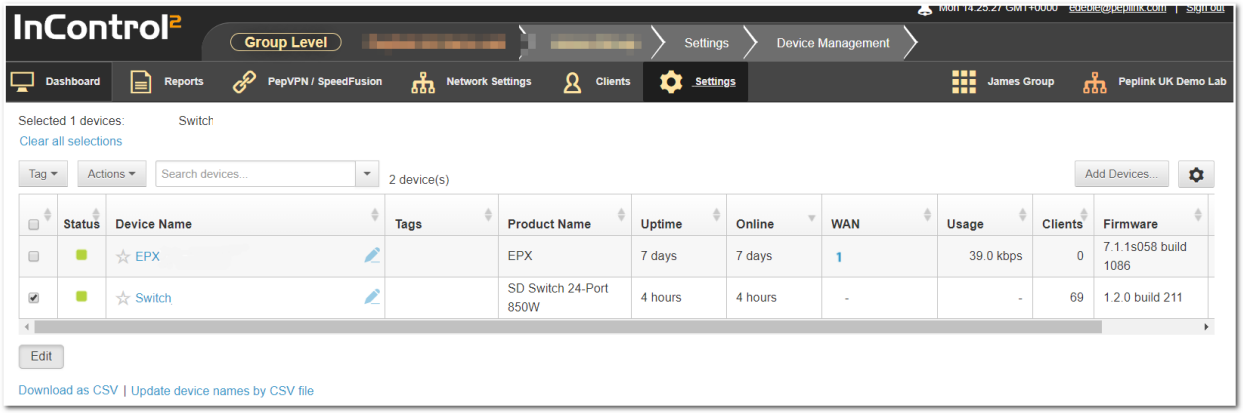
Click the "**Apply Changes**" text on the top-right corner to save your changes.
When InControl management has been enabled you can access the web admin interface of the switch using InControl.
Select: **Settings > Remote Web Admin** to connect to the Switch's web admin interface.



InControl Group Settings

Organization > Group >Settings > Device Management

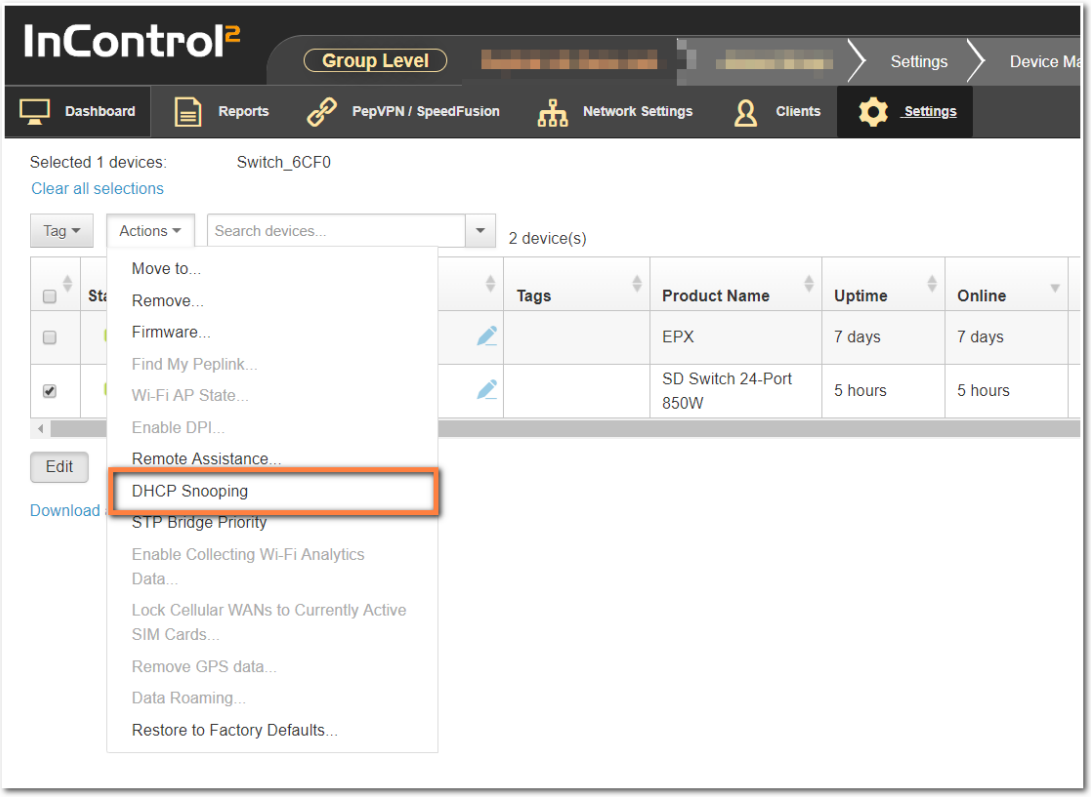
The InControl Group Settings device details shows tags, product name, uptime, online time clients and firmware for each device.
This pageview also allows you to configure switch specific options through the "actions "drop-down list.



InControl DHCP Snooping

Organization > Group >Settings > Device Management
Actions > DHCP Snooping

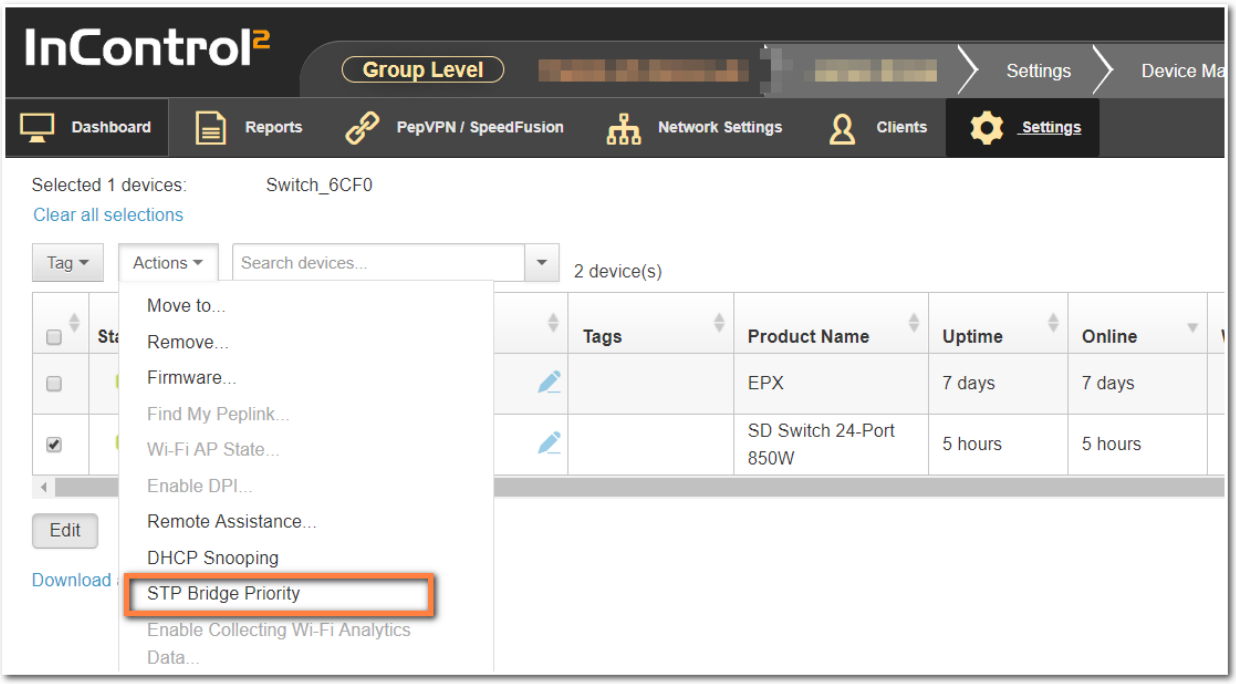
Prevent unauthorized DHCP servers offering IP addresses to DHCP clients.
When this is enabled, DHCP server discovery messages will only be forwarded to switch ports that are configured with the "Allow DHCP Server" option in port details..
Default setting: disabled

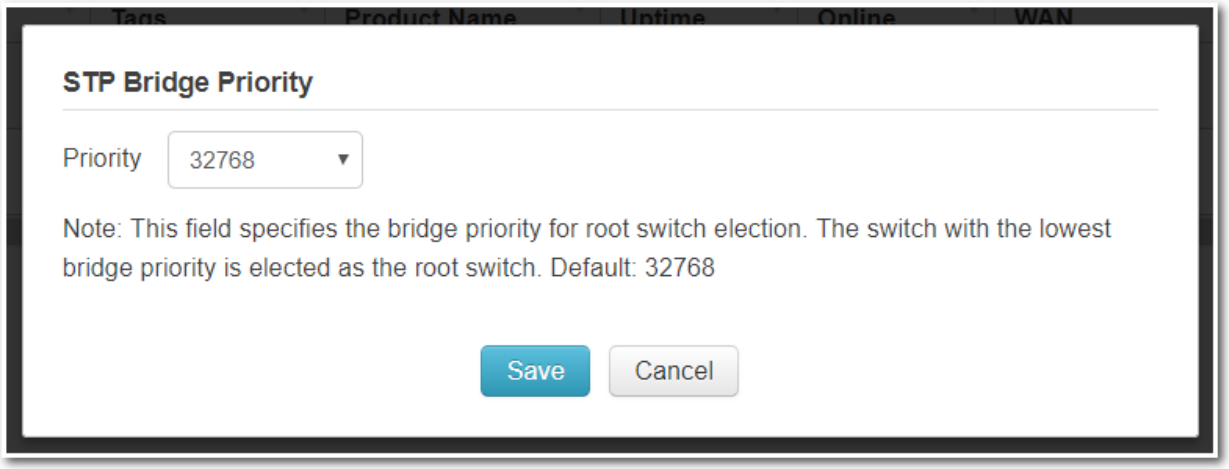


InControl STP Bridge Priority

Spanning Tree Protocol (STP) uses Spanning Tree Algorithm to avoid network loops in layer 2 devices. STP works when multiple switches are used with redundant links avoiding Broadcast Storms, Multiple Frame Copies & Database instability.

The priority field specifies the bridge priority for root switch election.
The switch with the lowest bridge priority is elected as the root switch (Default value: 32768).





Configuring VLANs

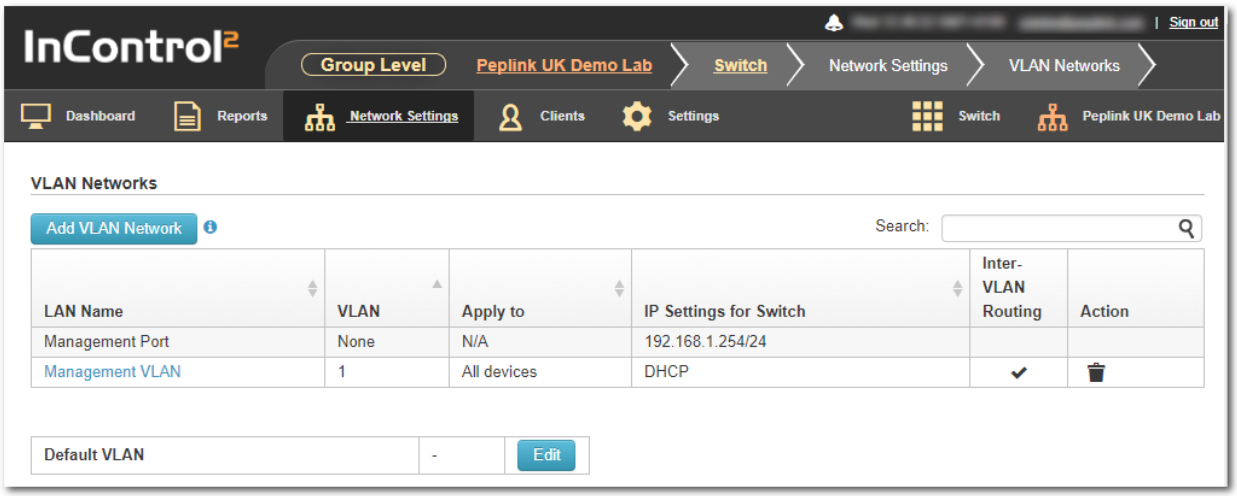
Organization > Group > Network Settings > VLAN Networks

From the available InControl Group settings, the **Network Settings > VLAN Networks** has several Switch-specific settings and behaviors.

VLANs configured on a device but not on InControl are "device managed", which means that InControl will not manage them. VLANs configured on both a device and InControl are "InControl managed", which means that: InControl will control their Name and Captive Portal settings. Their IP and DHCP settings will be kept intact. When a VLAN is removed from InControl, it will be removed from the device as well.

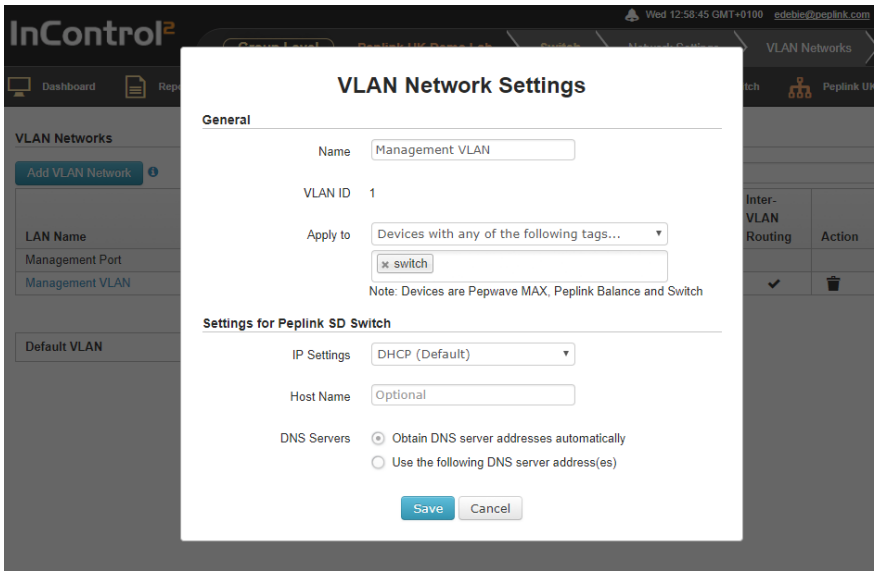
If a VLAN gets defined on InControl, but not yet on the device, it will be defined on the device as well. Its IP address will follow the Default IP Address setting. The DHCP server will be enabled with default settings.

When a Switch is added to a group in InControl, a Management Port and Management VLAN are imported from the local Switch to InControl.



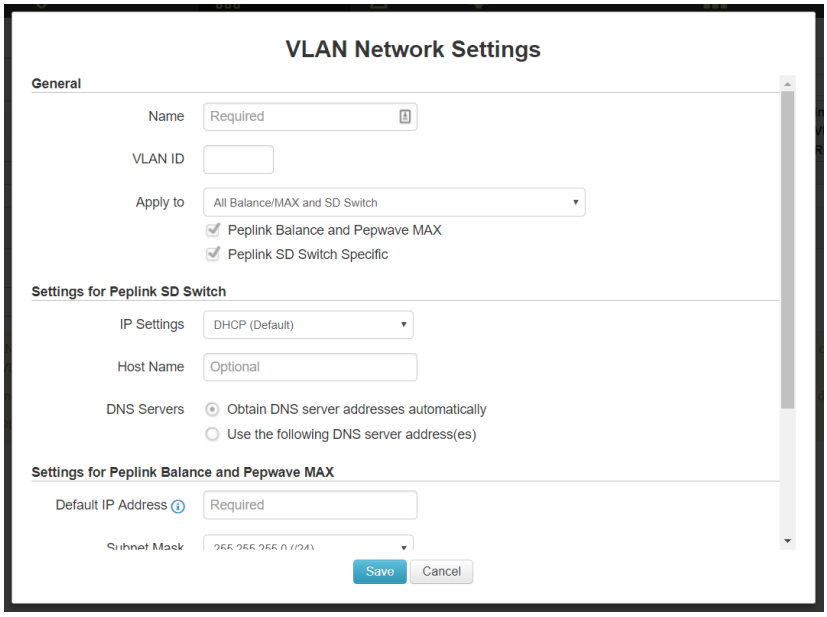
By default, this VLAN is applied on any device that is added to this group. Each VLAN can be applied to a selection of devices in the group by using tags. Tags can be configured in the device details.

Detailed management VLAN network settings:



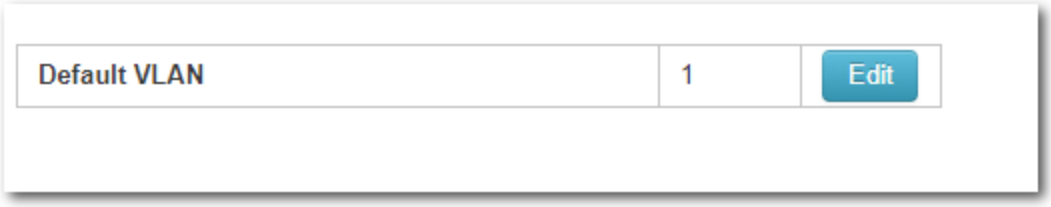
Define a new VLAN

To add a new VLAN click on the "**Add VLAN Network**" button in the **Network settings** > **VLAN Networks** section of InControl.



Enter the desired parameters and click "Save" to apply the settings.

Default VLAN Settings



This setting is only applicable to all Peplink SD Switches' trunk ports which are configured with the “Accept Frame Type” option set to "All". When any untagged frames or frames tagged as this VLAN enter into those trunk ports, they will be assigned to this VLAN. Any frames on this VLAN leaving from those trunk ports will be untagged.

By default, the default VLAN ID is set to 1.

When any untagged frames or frames tagged as 1 enter into any Peplink SD Switch's trunk ports which are configured with Accept Frame Type option set to "All", the frames will be assigned to VLAN 1. Any frames on VLAN 1 leaving from those ports will be untagged. After review, this setting needs to be saved once to confirm.

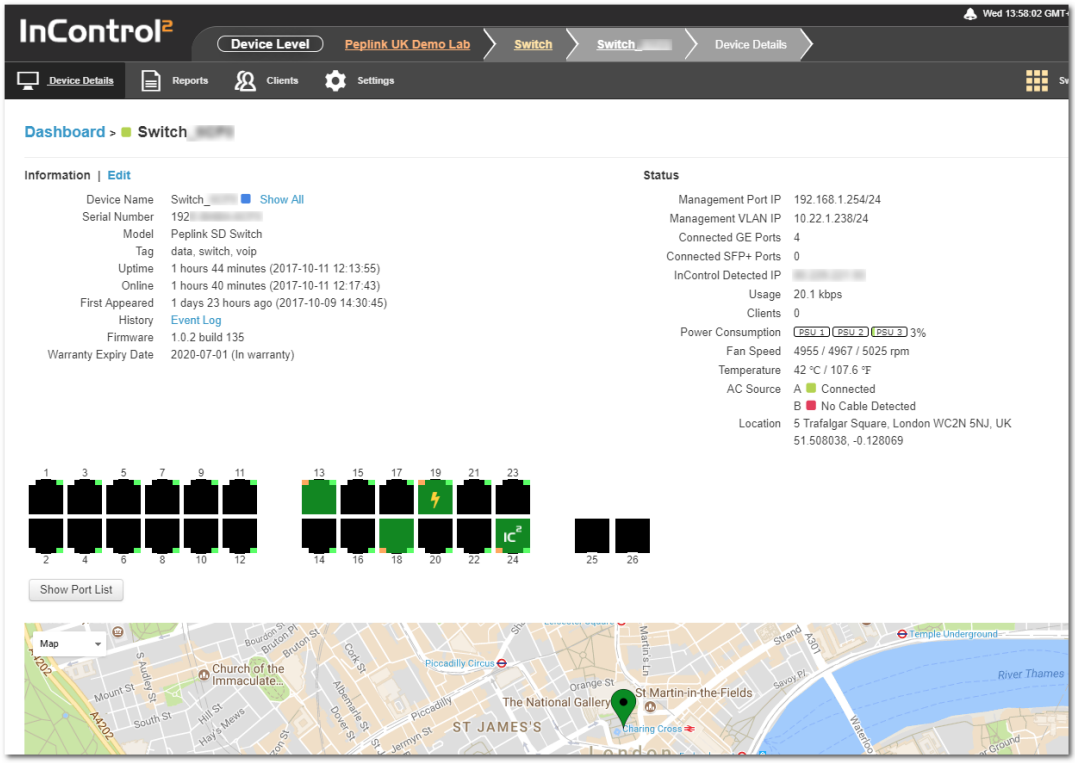
Tip 1: If you want untagged frames to be forwarded between trunk ports only and do not want them to leave from any access port, you could create an extra VLAN and set it as the default VLAN.

Tip 2: If you do not want to accept any untagged frames, change all trunk ports' Accept Frame Type option to "VLAN tagged only".

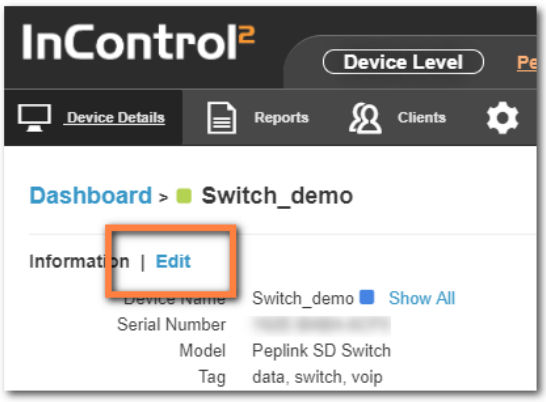
InControl Device Details

The Device Details page shows the following detailed information about the the SD-Switch:

Device Name	Firmware	Clients
Serial Number	Warranty Expiry Date	Power Consumption
Model	Management port IP	Fan Speed
Tags	Management VLAN IP	Temperature
Uptime	Connected GE ports	Power source
Online	Connected SFP/SFP+ ports	Location
First Appeared	InControl Detected IP	Port List
History (event log)	Usage	

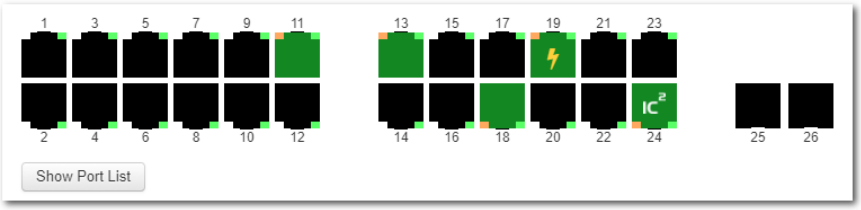


Device name, tags, location, and notes can be changed through the “Edit” link:



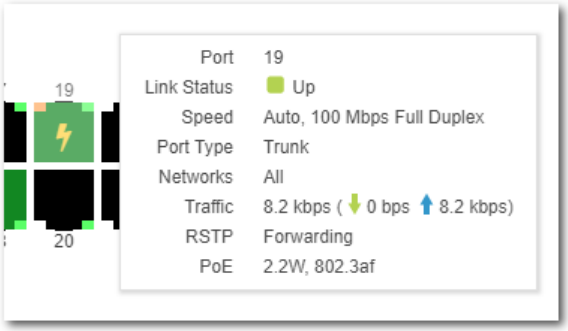
Select the Save button on the bottom of this page to save the settings and return to the device details page.
Or Cancel to discard changes and return to the Device Settings page.

Port details



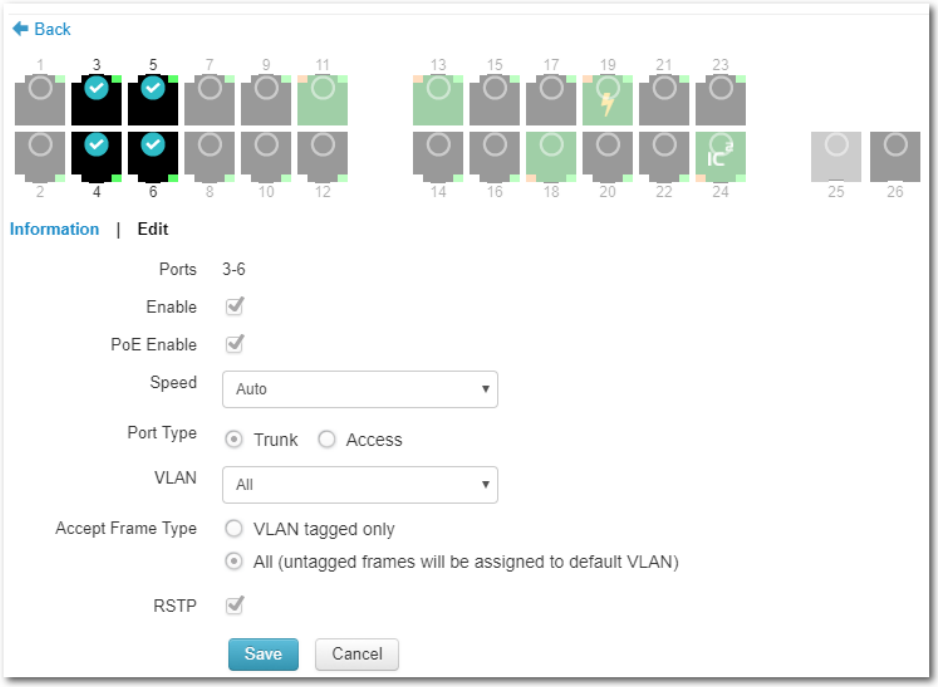
The Port List shows the available switch ports and their status. When hovering over an individual port additional information is shown for that particular port.
Port 1 through 24 are RJ45 ports (ethernet)
Port 25 and 26 are SFP+ ports (fibre)

Port Icons Glossary	
	port down
	port up - PoE not drawing power
	port up -PoE drawing power
	port up - link to InControl
	Port up - PoE disabled



Port Details and Configuration

Additional port details appear when clicking on an individual port from the device details page.

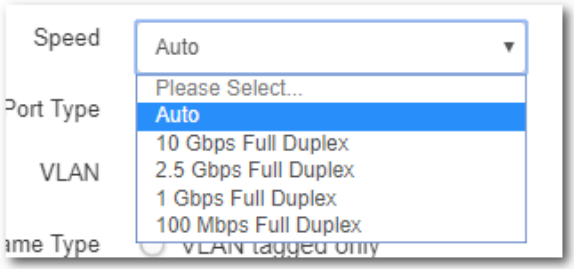


Single or multiple ports can be selected and edited.

Configurable options (port 1 - 24)	
Enable / disable	Enable or disable the switch port
PoE enable / disable	Enable or disable PoE on the port
Speed^	Select ports speed 10 or 100 Mbps half or full Duplex or 1 Gbps full Duplex.
Port Type	Trunk or Access port
VLAN	All or CUSTOM (select 1 or more existing VLANs)
Accept Frame Type*	Frame Types the port accepts (VLAN tagged only, or All)
RSTP	Enable or disable RSTP (Rapid Spanning Tree Protocol)
Allow DHCP server*	Enable or disable IP assigned by DHCP

Notes	Add additional notes
LACP	Link Aggregation

^ Configurable options on SFP+ ports are similar as above; but configurable port speeds are between 100 Mbps Full Duplex up to 10 Gbps Full Duplex.



* Frame Type setting determines whether the frame should be accepted or discarded.
This option is only configurable when Port Type is set to “Trunk” and “VLan Networks” is set to “All”.

Available options are:

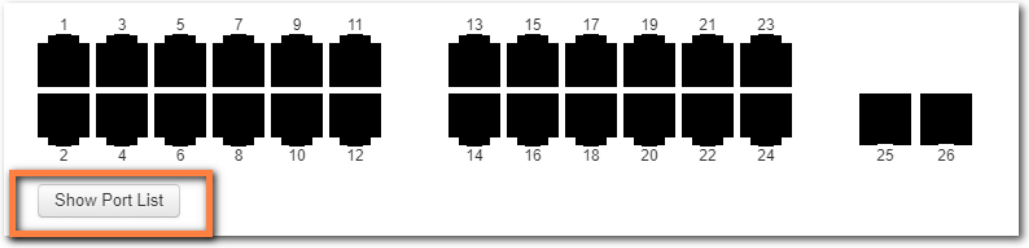
- VLAN Tagged Only : Only accept frame types from VLANs(Tagged)
- All: accept both tagged and untagged frames; when any untagged frames or frames tagged as this VLAN enter into those trunk ports, they will be assigned to this VLAN. Any frames on this VLAN leaving from those trunk ports will be untagged

* The option “Allow DHCP server” is only visible in the InControl port options when DHCP snooping on the switch is enabled on the switch.

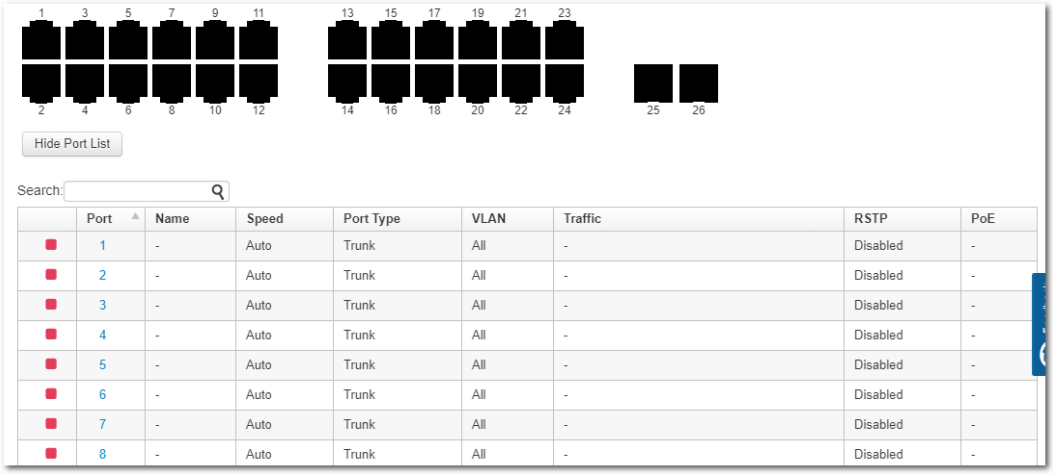
When DHCP snooping is enabled on the switch, this option enables DHCP snooping for the individual ports, setting the option as per the default setting on the device “trusted or untrusted”.

Port List

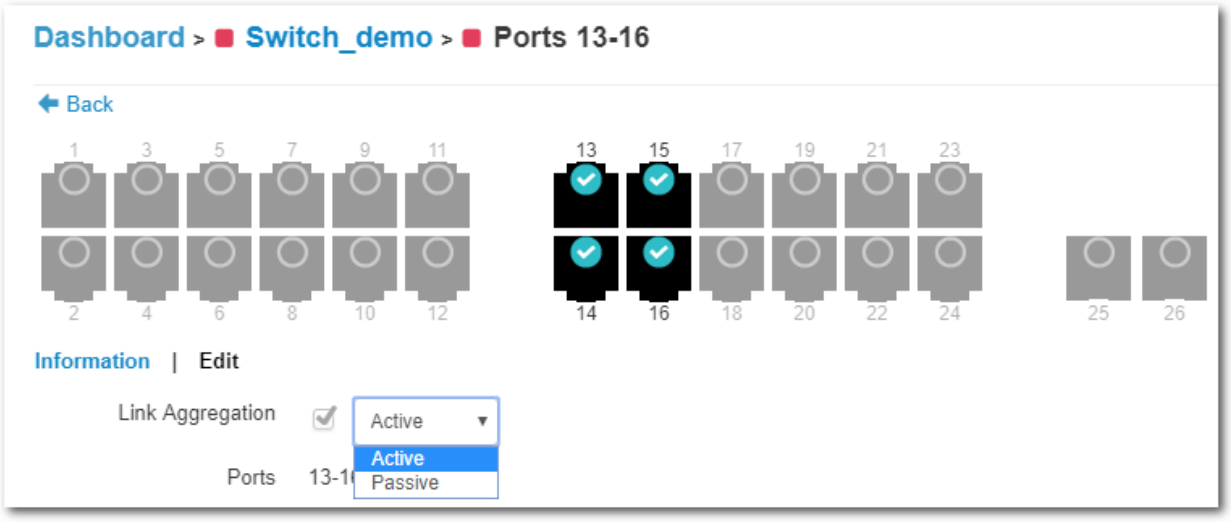
The port list can be shown or hidden by clicking on the show/hide button under the ports.



This will show (or hide) a table showing port details.



LACP - Link Aggregation



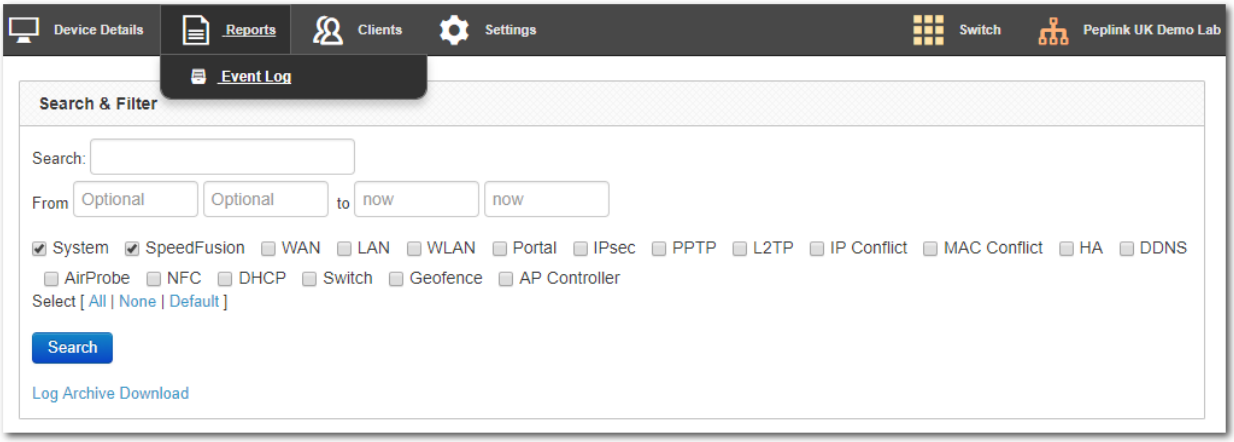
IEEE 802.3ad link aggregation enables you to group Ethernet interfaces to form a single link layer interface, also known as a link aggregation group (LAG).
The maximum interfaces per LAG is 24.
The advantages of link aggregation in contrast with connections using an individual port include:

- higher throughput speed compared to an individual port
- higher accessibility

To configure a Link Aggregation Group (LAG), click **Edit** after selecting multiple ports. Enable Link Aggregation by selecting the checkbox next to **Link Aggregation.** The LAG can be set to **Active** or **Passive.**
LACP needs to be set to active on 1 side at least for LACP to work.

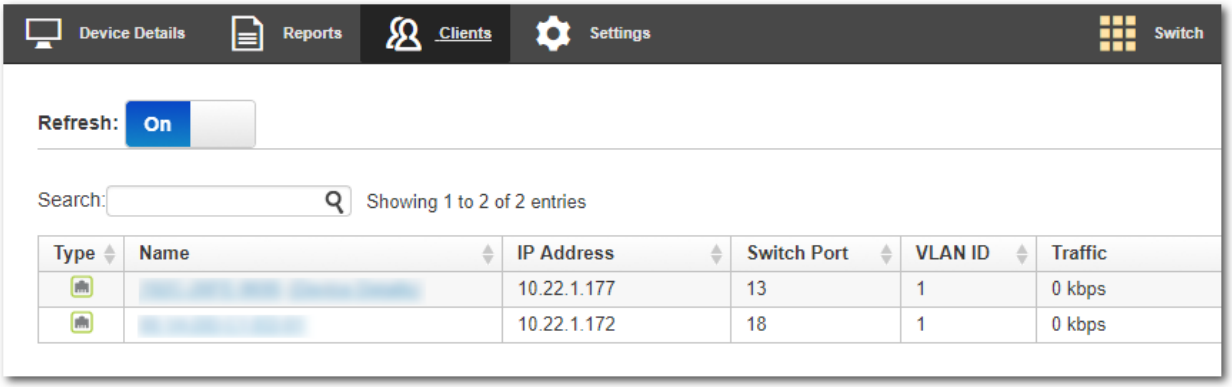
Details of Connected Clients and Hourly, Daily, or Monthly Power Usage for each Port is shown in a graph on the same page.

InControl Reports



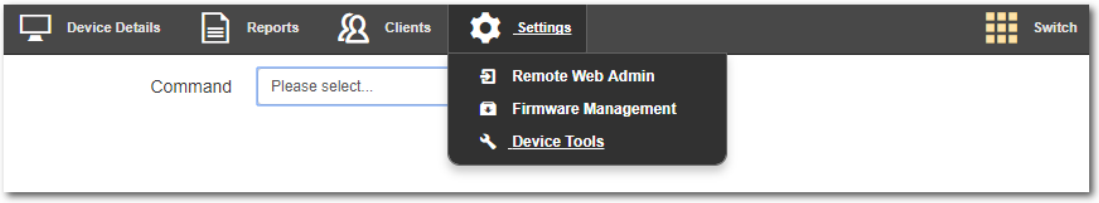
Search through the SD Switch event logs, filter results by topic, time, client and details.
Download the event log in .csv format.

InControl Clients



View client details from client devices connected to the SD Switch.

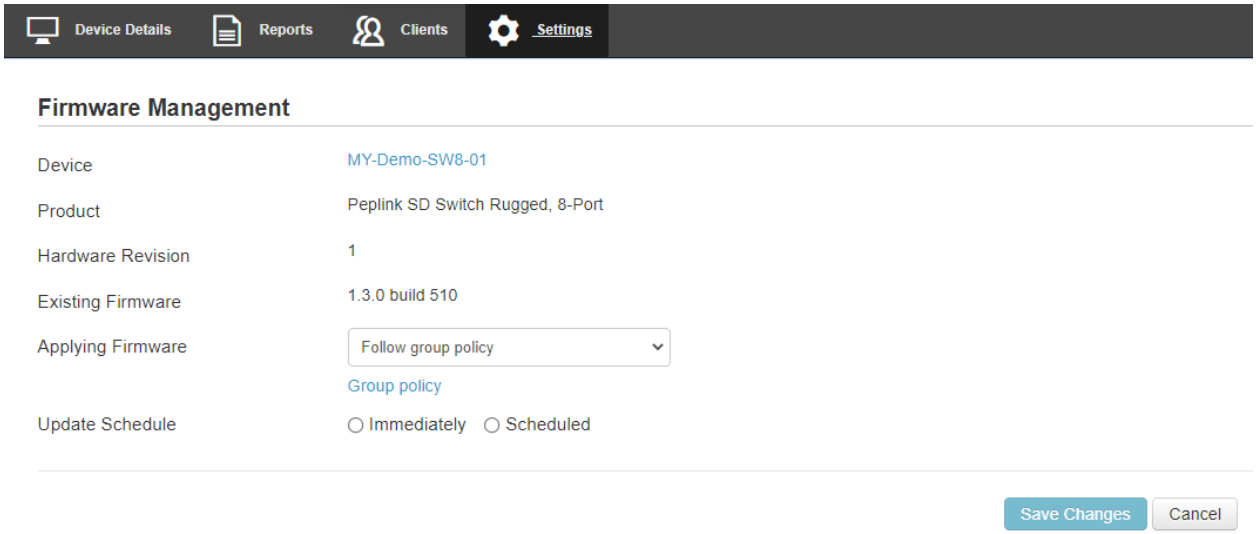
InControl Settings



The InControl settings section gives access to the Remote Web Interface of the Switch. You can also control firmware management for all devices in this InControl group and Device Tools.

Settings > Remote Web Admin
Remote Web Admin opens the web admin interface of the SD Switch in a separate tab.

Settings > Firmware Management

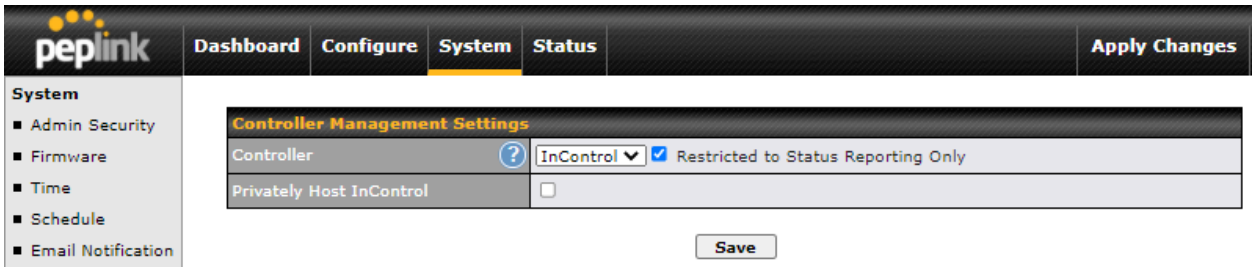


Standalone Configuration

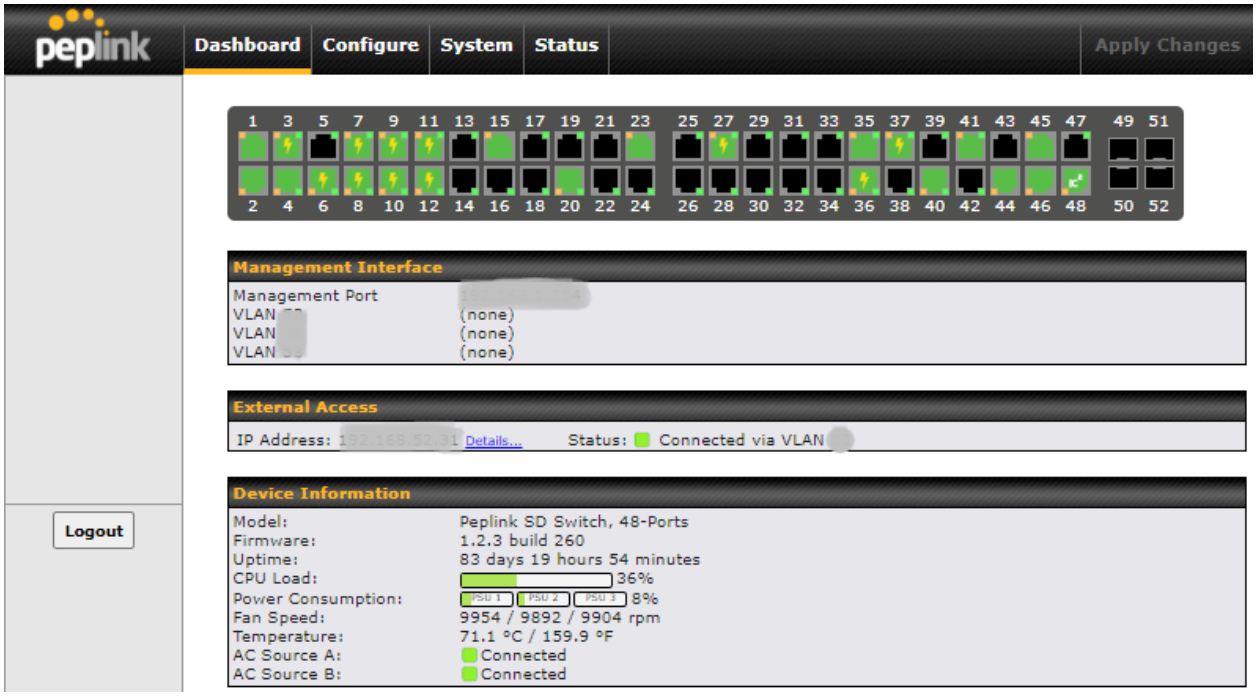
When configuring the Switch in Stand Alone mode, InControl Management needs to be disabled. After connecting to the management port and logging on to the Web Interface of the Switch, browse to **System > InControl** and configure the InControl settings to be disabled.

Your device will not be allowed to communicate with InControl.

Alternatively configure this option as **"Enable (Restricted to Status Reporting Only)"** to be able to monitor the switch through InControl but manage it from the local web admin interface.



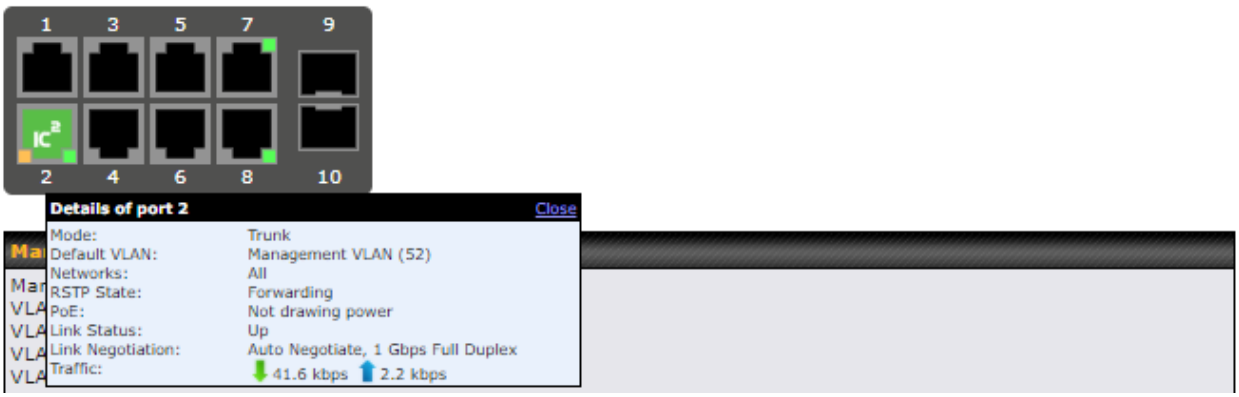
Standalone menu options > Dashboard



The Device Details page shows the following detailed information about the SD-Switch.

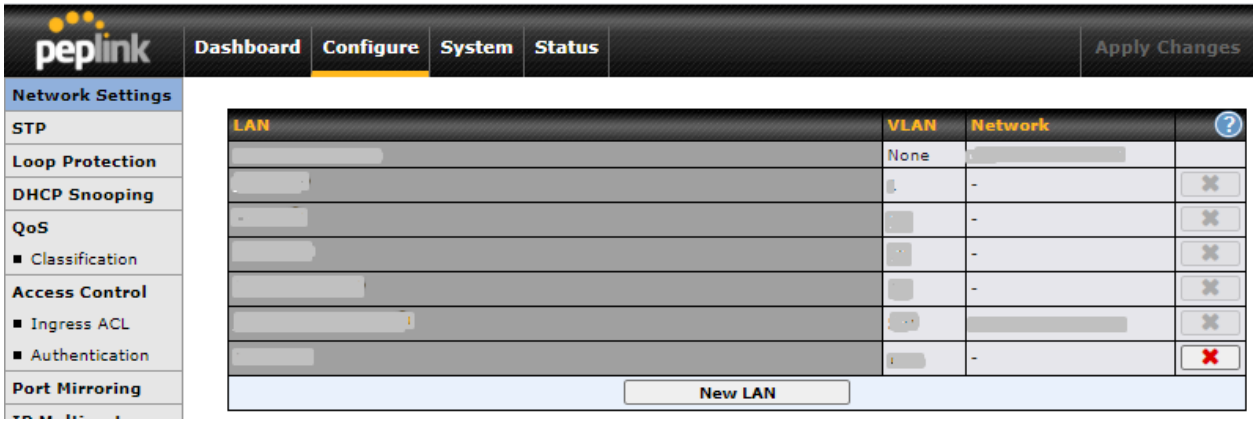
Port Overview	Firmware	Fan Speed
Management port IP	Uptime	Temperature
Management VLAN IP	CPU Load	Power source status
Model	Power Consumption	Port List

When hovering over a port, a popup window with port details displays the following information:



Mode	RSTP State	Link Negotiation details
Default VLAN	PoE	Traffic
Networks	Link Status	

Standalone menu options > Configure > Network Settings



VLANs are configured in the **Configure > Network Settings** section of the Switch web interface.
The default VLAN is marked with a * in the overview. VLANs that are managed by InControl are marked with a cogwheel. To define a new VLAN select the "**New LAN**" option.
On the following screen, enter your desired parameters.

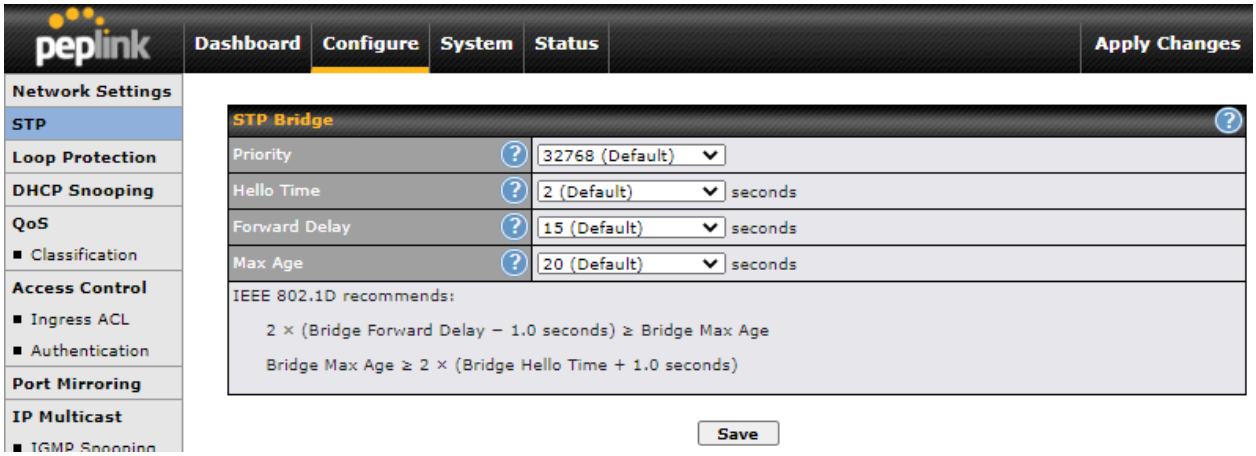
LAN Settings	
Name	Lan name
VLAN ID	VLAN ID (1 - 4094)
Default VLAN	Tick checkbox to enable as default VLAN ⚠
IP Address *	The IP address is used for accessing the web admin interface.
Subnet Mask	Subnet Mask

⚠ This is a global value; when the VLAN is saved as Default VLAN it will be synchronised with InControl and applied to all the devices with a tag "SD switches" in the same InControl group!

***The IP address (optional) and the IP address for inter VLAN routing can be defined for each VLAN. The IP addresses need to be in the same subnet.**

Standalone menu options > Configure > STP

Spanning Tree Protocol (STP) uses the spanning tree algorithm to avoid network loops in layer 2 devices. When multiple switches are used with redundant links, STP is utilized to avoid Broadcast Storms, Multiple Frame Copies, and Database instability.



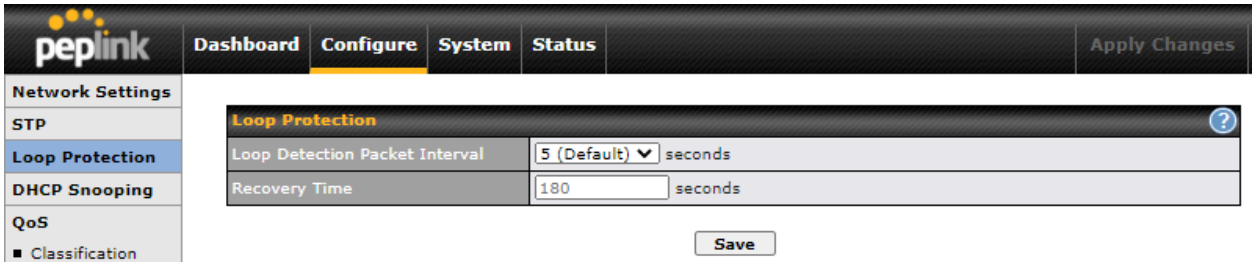
STP Bridge	
Priority	This field specifies the bridge priority for root switch election. The switch with the lowest bridge priority is elected as the root switch (Default value: 32768).
Hello Time[A]	Time between each exchange of bridge protocol data units (BPDU). (Default value: 2 seconds).
Forward Delay[A]	Delay used by STP Bridges to transit Root and Designated Ports to Forwarding. (Default value: 15 seconds).
Max Age[A]	Maximum age of the information transmitted by the bridge when it is the Root Bridge. (Default value: 20 seconds).

[A] - Advanced feature. Click the button on the top right-hand corner to activate.

Standalone menu options > Configure > Loop Protection

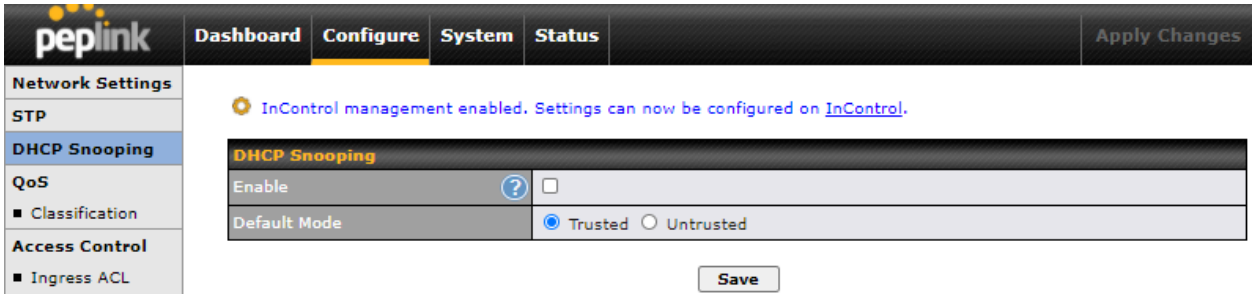
Loop Protection protects the network from loops by checking loop detection packets. The active ports send and detect the loop detection packets while the passive ports only detect the packets. Loop detection will occur when a port receives the same packet. When this happens, the port is disabled for the Recovery Time period in order to prevent the loop. Default Recovery Time is 180 seconds.

Per-port loop protection availability and active / passive mode can be defined in the Port Settings page.



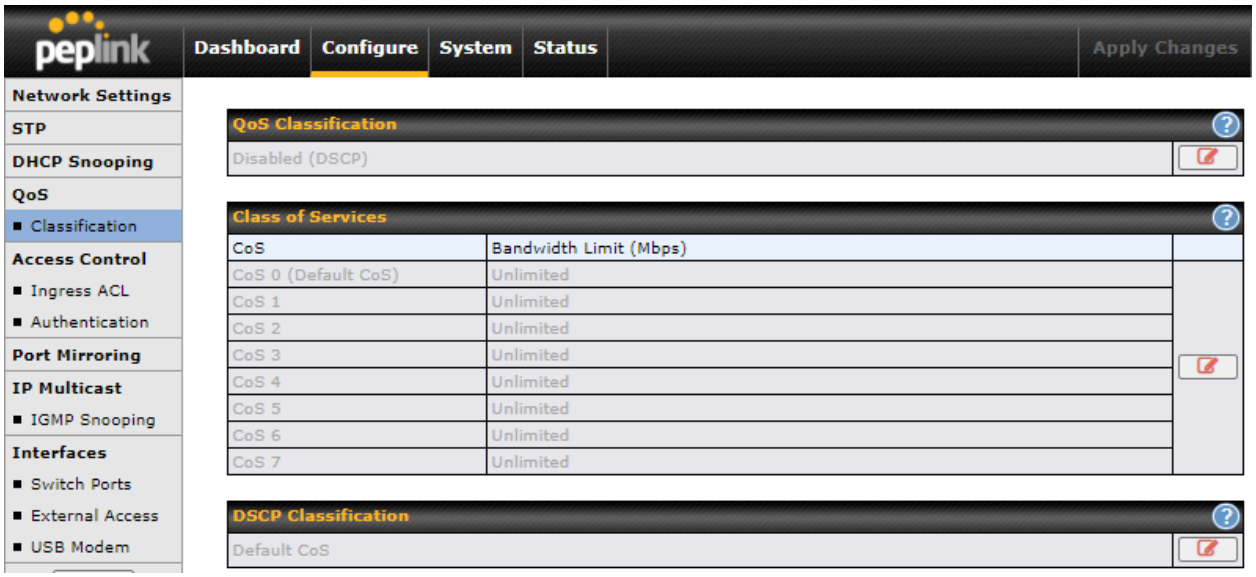
Standalone menu options > Configure > DHCP Snooping

When DHCP Snooping is enabled, the DHCP request messages will be forwarded to trusted ports only and only allow reply packets from trusted ports.

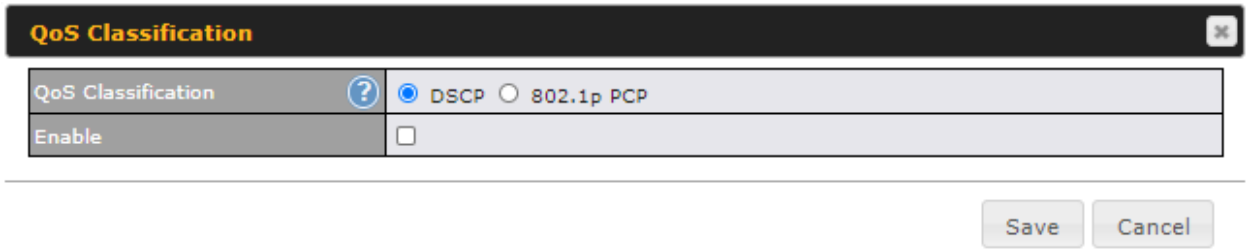


When DHCP snooping is enabled all ports are either configured to be “trusted” or “untrusted” ports by default.
Each switch port can then be configured to be a “trusted” or “untrusted” port.

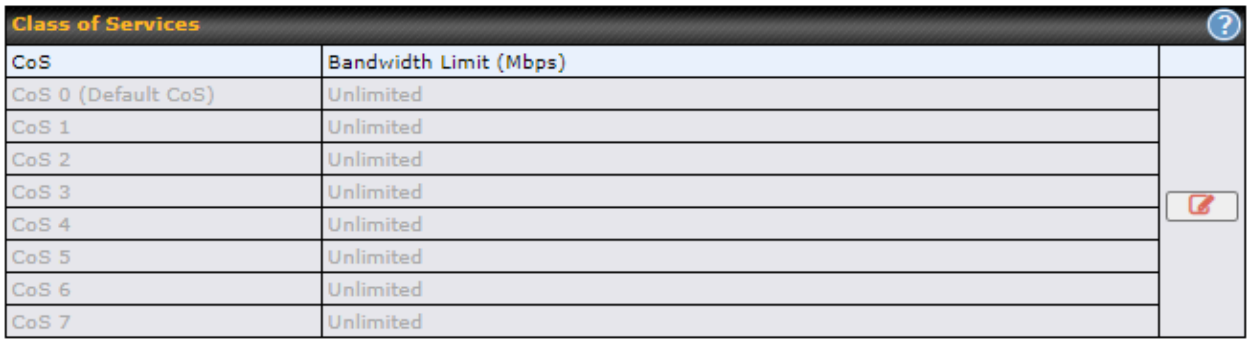
Standalone menu options > Configure > QOS

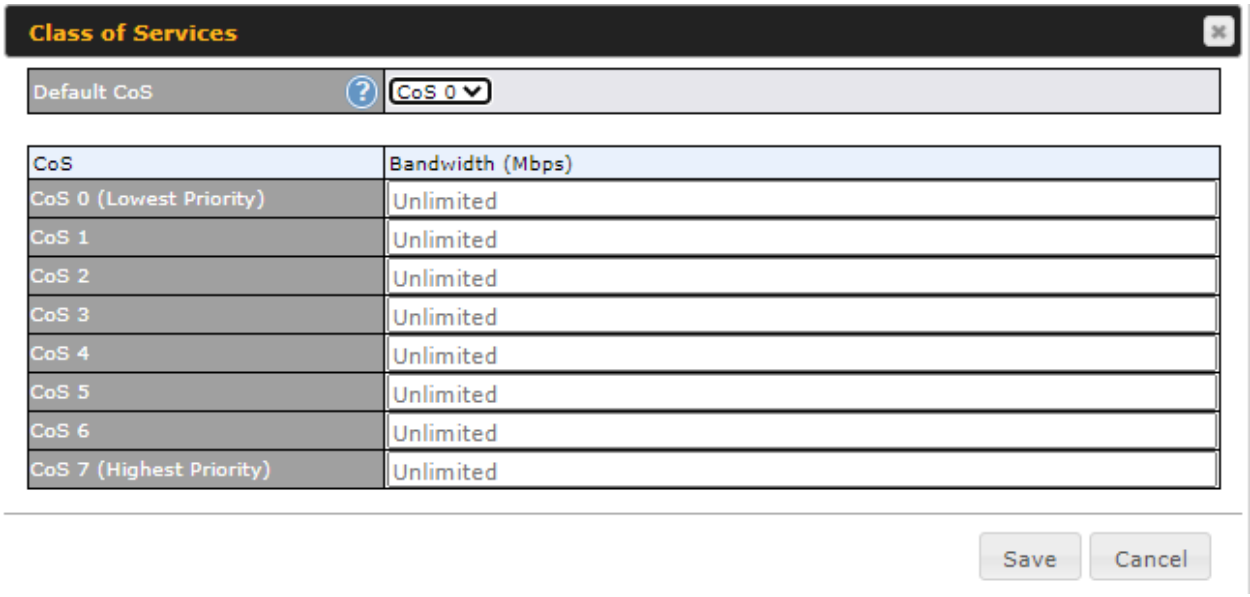


QoS Classification prioritizes network traffic into 8 different categories of class of service (CoS) according to the tag protocol technologies being chosen. Each CoS provides different levels of priority and bandwidth limit.



QoS Classification supports DSCP or 802.1p PCP. Switching between them will automatically remove all DSCP / 802.1p PCP classification settings. Activating QoS Classification resets all related configurations such as Class of Services and DSCP Classification.



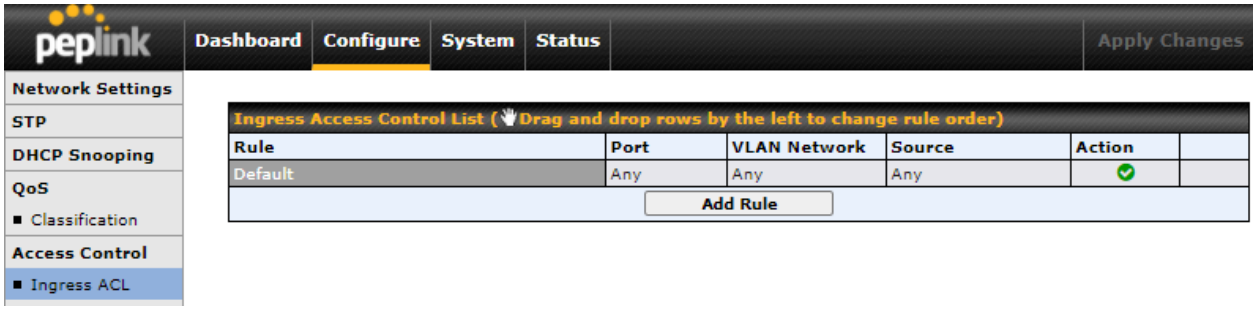


The Class of Services defines the bandwidth limit (in Mbps) of each CoS, which indicates the traffic priority.

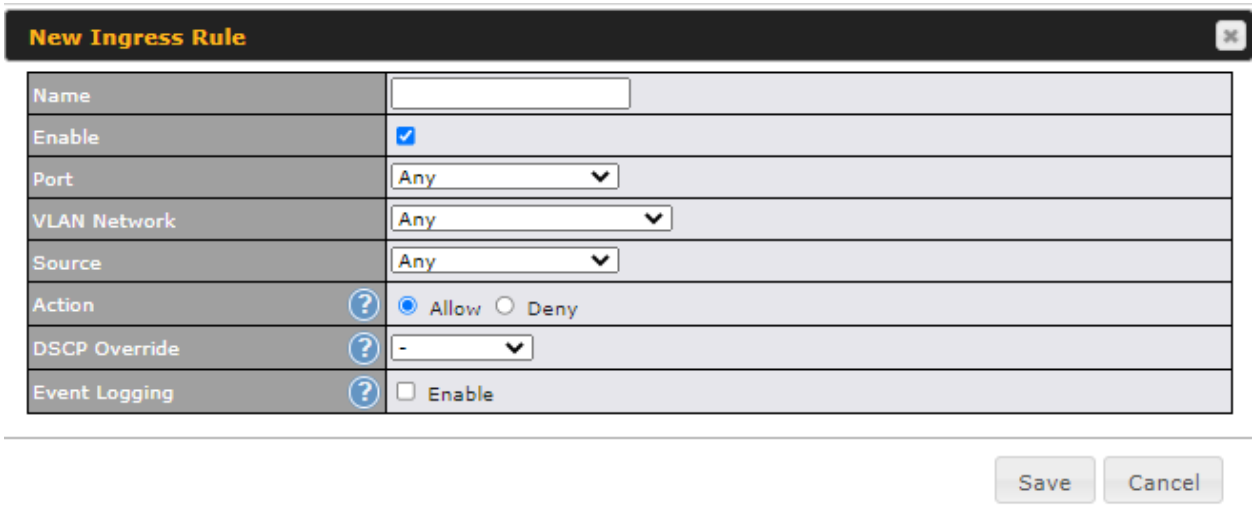
The DSCP Classification is to define the mapping of DSCP values of the packets to CoS. Without explicit mapping configured, packets are classified as Default CoS.

Standalone menu options > Configure > Access Control

Ingress ACL



Switch ports can be configured to limit access using an Ingress Access Control List (ACL).
The purpose of ingress (inbound) ACL is to specify the types of network traffic that are allowed in the device in the network.



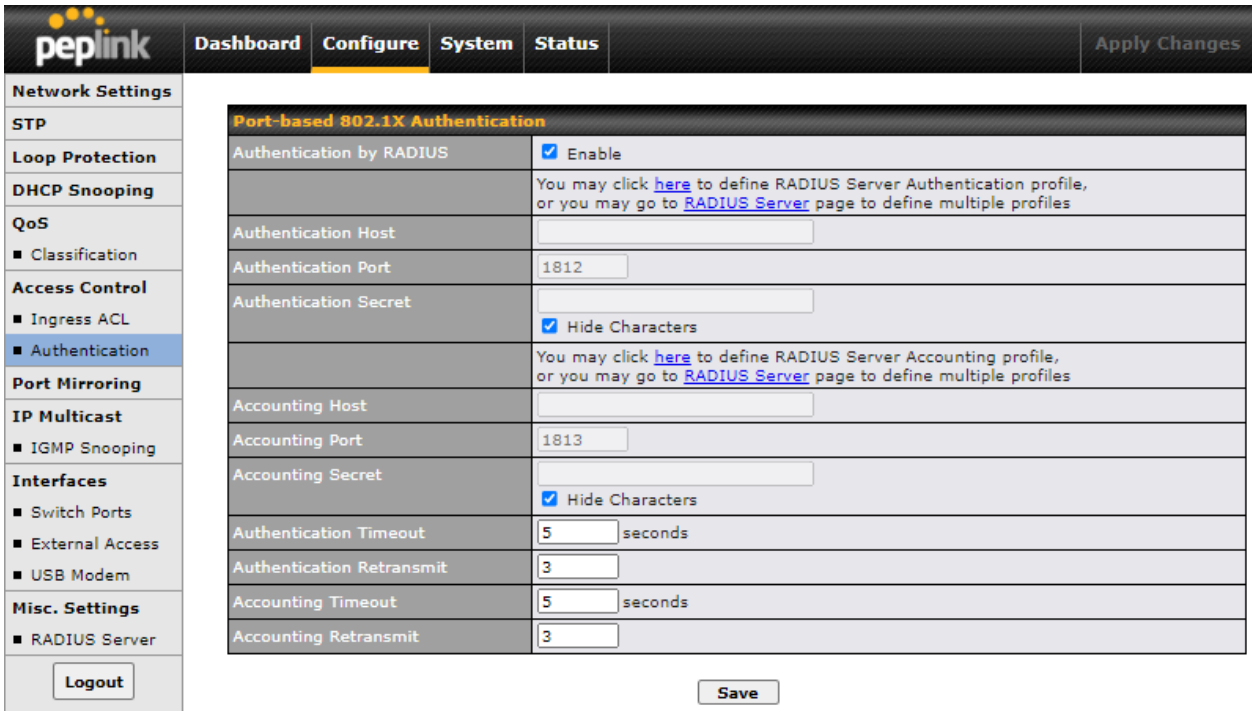
Configurable Rule options:

New Ingress Rule	
Name	Name of the Ingress Rule
Enable	Enables / disables the rule
Port	Any - The ingress rule apples to traffic to any port Custom - The ingress rule applies to one or more custom ports
VLAN Network	Select any or specify a VLAN
Source	Select any or specify MAC addresses
DSCP Override	Overrides the DSCP value for ingress packets matching this rule. QoS Classification, when enabled, will classify packets to the CoS according to this overridden value.
Event Logging	Enable / disable the event logging. When this option is enabled, the matched event will be recorded in Event Log.

Port-based Authentication (802.1.X)

The IEEE 802.1X standard defines the port-based network access control that is used to provide authenticated wired access to Ethernet networks. Access to the port can be denied if the authentication process fails.

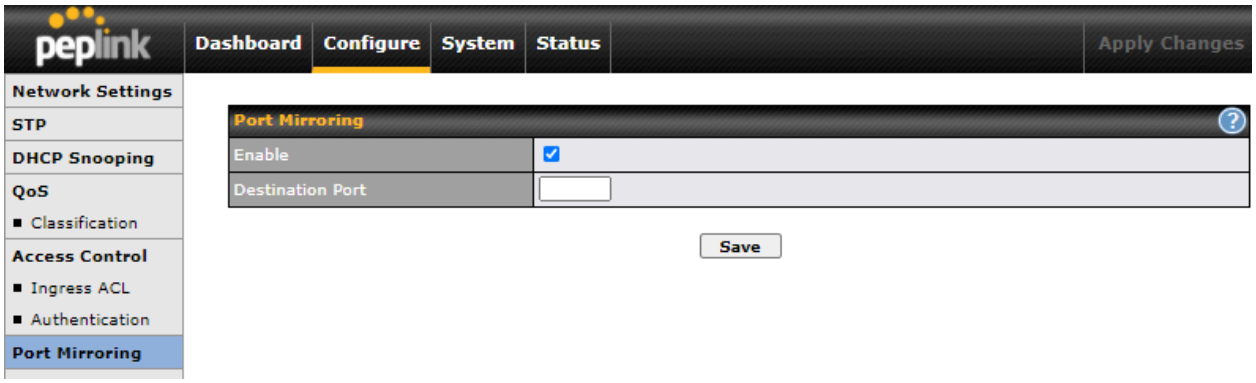
After configuring your radius server with the required authentication methods, enable port authentication on the Peplink switch by selecting the checkbox and configuring the other required fields



A new configurable option **"Authentication Method"** will appear in **"Port Settings"** when this option is saved and applied. See **Standalone menu options > Configure > Interfaces > Switch Ports**.

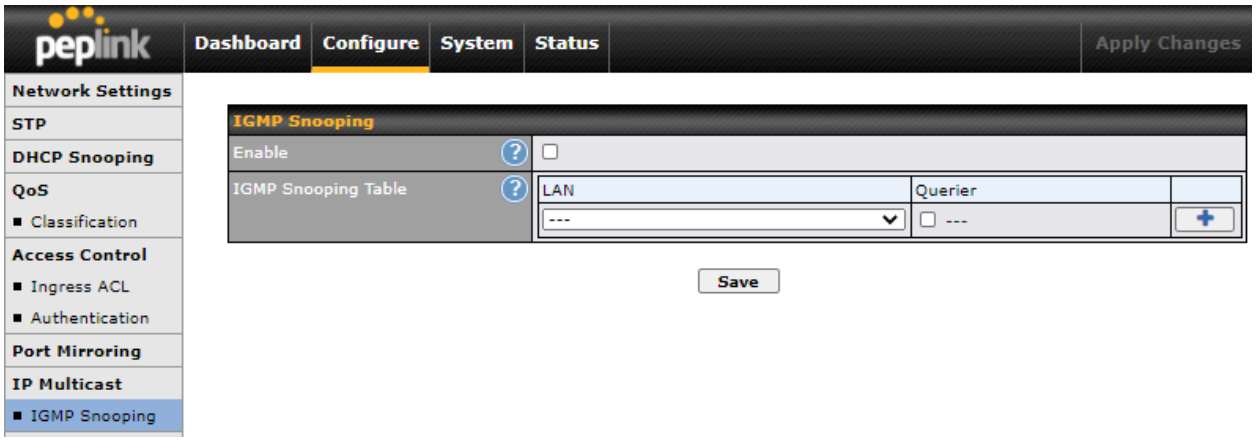
Standalone menu options > Configure > Port Mirroring

With port mirroring enabled, the switch sends a copy of all network packets seen on one or more ports to another port, where the packet can be analyzed. The destination port is configured in this section. Mirror ports can be defined under the Port Settings page.



Standalone menu options > IP Multicast > IGMP Snooping

IGMP snooping allows us to constrain our multicast traffic by listening to IGMP traffic between the router and hosts. The switch maintains a map of which links need which IP multicast streams. Multicasts may be filtered from the links which do not need them and thus controls which ports receive specific multicast traffic.

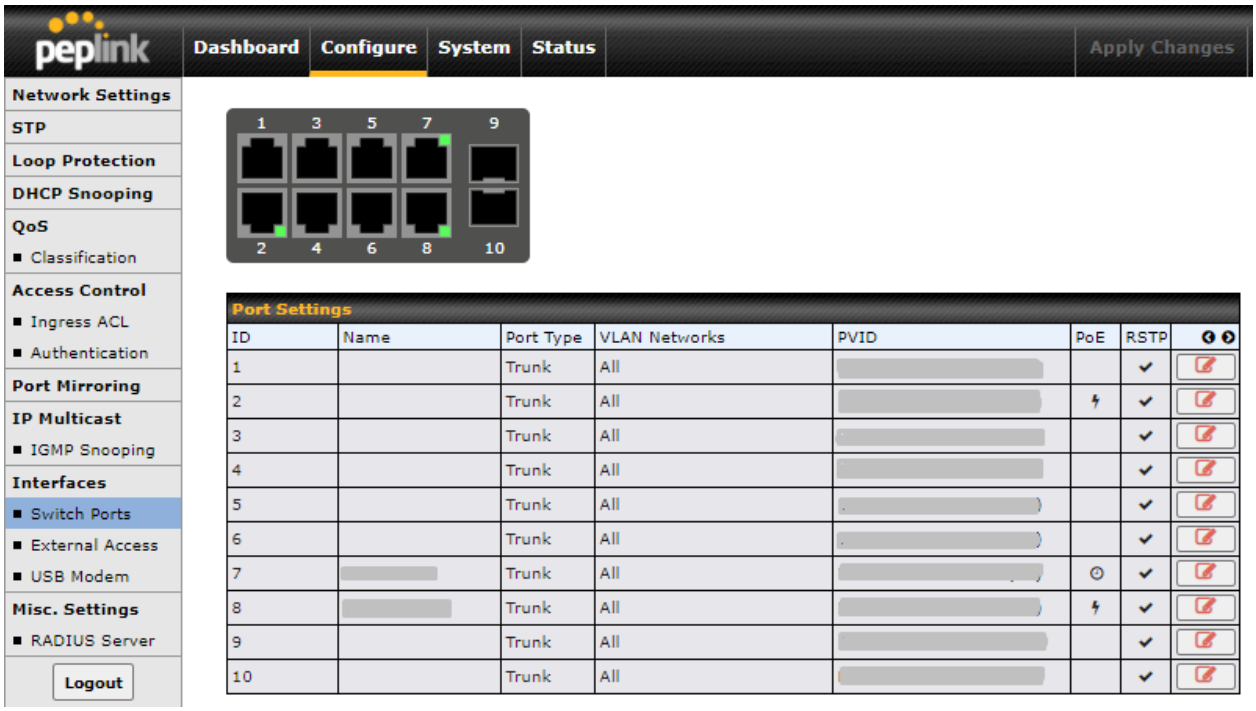


To enable IGMP snooping tick the enable checkbox. IGMP snooping is on a per-LAN basis, add new entries to the IGMP snooping table to activate IGMP snooping on a particular LAN.
Configure an IGMP snooping querier to send membership queries.
When an IGMP snooping querier is enabled, it sends out periodic IGMP queries that trigger IGMP report messages from hosts that want to receive IP multicast traffic.

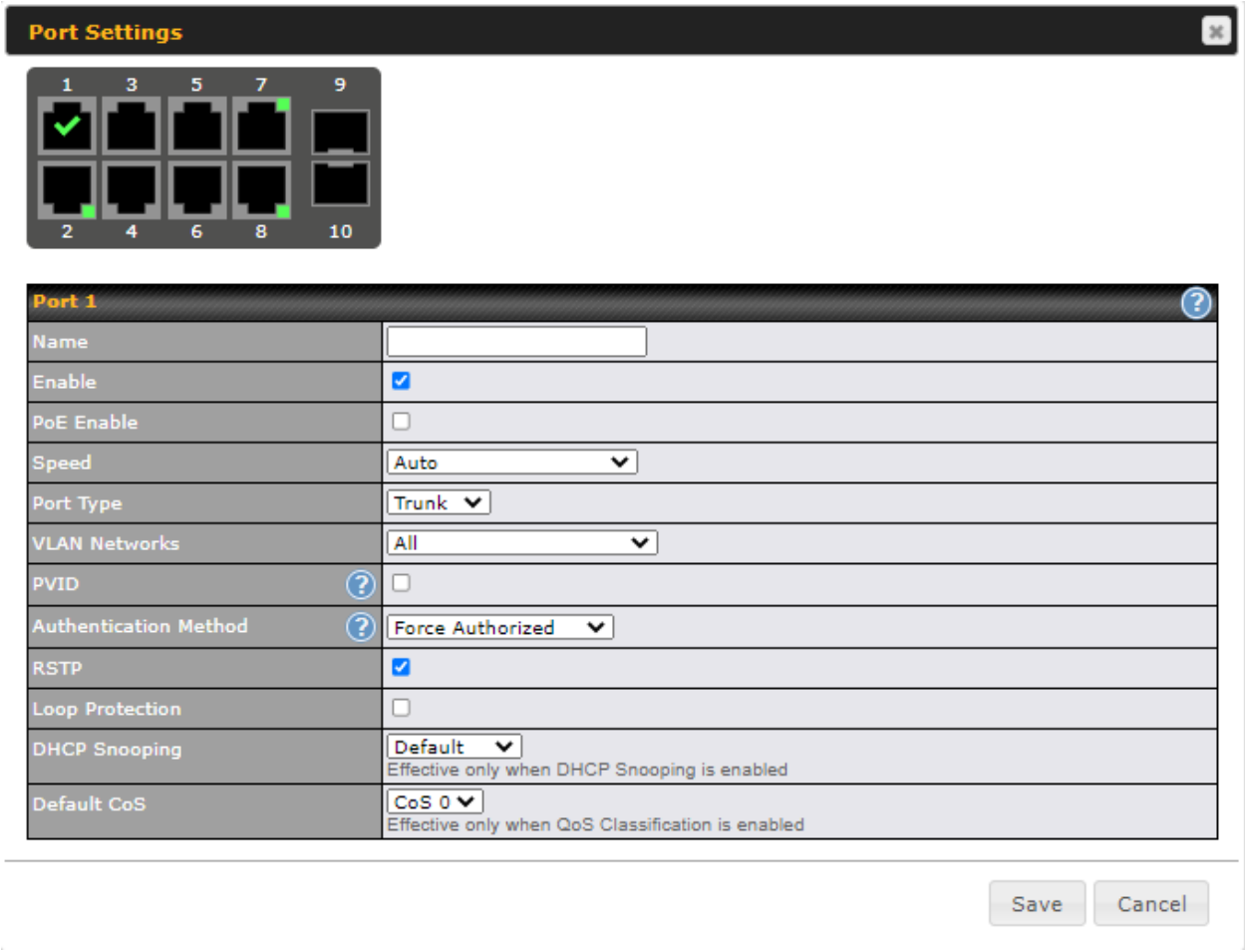
Standalone menu options > Configure > Interfaces > Switch Ports

For each port, you can set PoE scheduling, port type (Trunk and Access), as well as the VLAN which they belong to.

Navigate to **Configure > Switch Ports** and then click the pen icon for the port you wish to configure.



On the following screen, enter your desired parameters.



The configurable settings are:

Port Settings	
Name	Set a name for the port
Enable checkbox	Enables / Disables the Port
PoE Enable checkbox	Enables / Disables PoE on the Port
Port Speed	Set the port speed to Auto, 10 Mbps or 100 Mbps half-full duplex, or 1GB full duplex
Port Type	Set as Trunk or Access
VLAN Networks	Designate one or more VLANs to be used on this port.

PVID**	Untagged frames received by the port are classified to a VLAN indicated by Port VLAN Identifier (PVID). All frames from the VLAN are untagged on egress.**
Authentication Method**	Select authentication method**
RSTP checkbox	Enables or Disables Rapid Spanning Tree Protocol
Loop Protection	Select Active or Passive loop protection
DHCP snooping	Default, Trusted or untrusted *Effective only when DHCP snooping is enabled*
Default CoS**	Select the default CoS classification *Effective only when QoS Classification is enabled*

** PVID option is only configurable when Port Type is set to “Trunk”.
** Default CoS is only configurable when QoS Classification is enabled and default CoS is set to “Defined in Port Settings”.
** Authentication Method is only visible after configuring Port-based 802.1X Authentication. The available options are:

- **Forced Authorized** - The port is forced to be in authorized state and network access is permitted.
- **Forced Unauthorized** - The port is forced to be in unauthorized and network access is prohibited.
- **Port-based 802.1X** - The port performs 802.1X authentication against a RADIUS authentication server.

The port is in authorized state with successful authentication. Otherwise, it is in an unauthorized state.
For aggregated ports, force authorized is used.
RSTP will be disabled when force unauthorized or port-based 802.1X is selected.

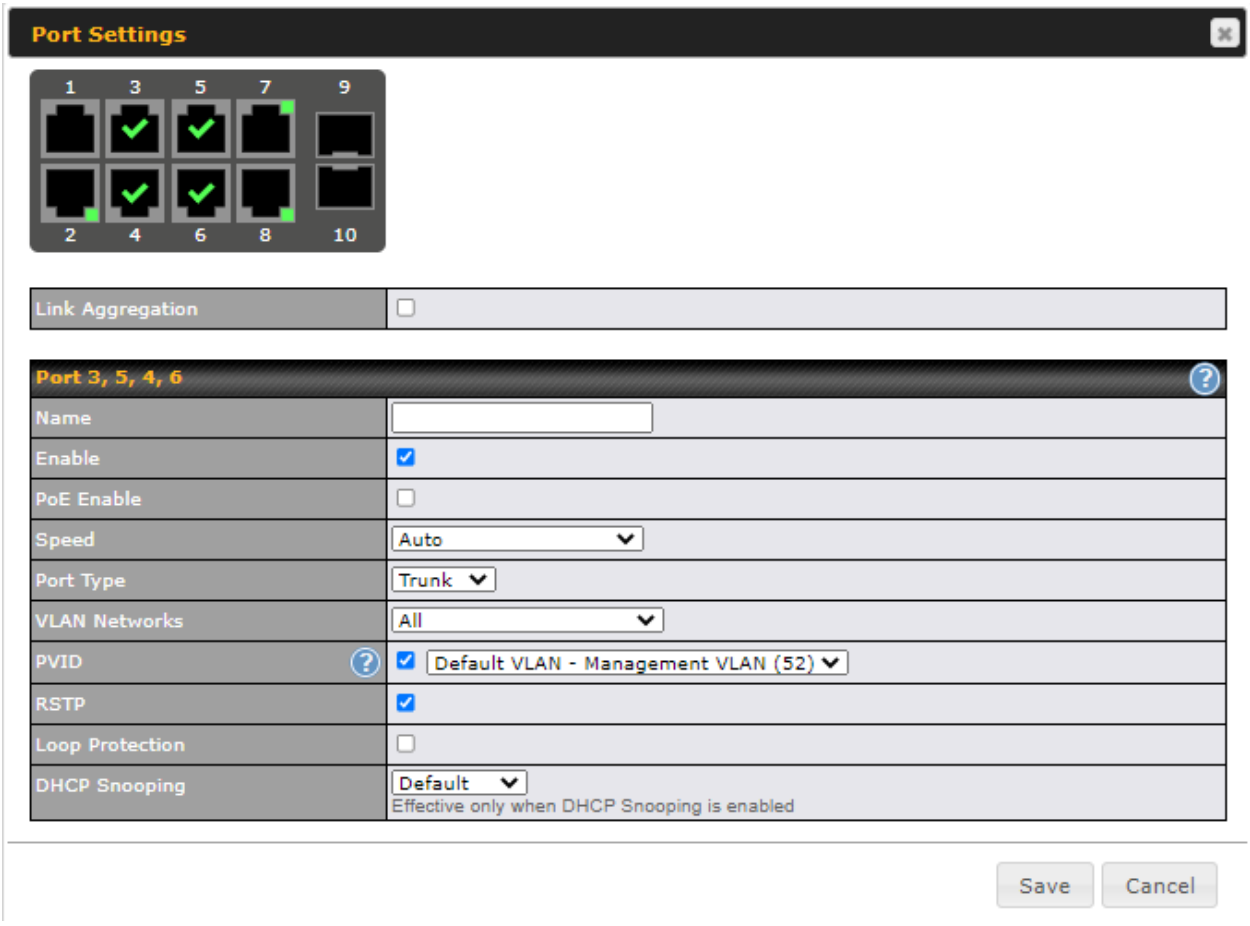
After making changes, click “**Save**” and then click the “**Apply Changes**” button on the top-right corner of the interface.

LACP (802.3ad) Configuration

LACP is part of the IEEE specification 802.3ad and allows you to bundle several physical ports to form a single logical channel.

Bundling multiple physical ports into a single logical link allows you to increase throughput beyond the limitations of a single connection and provides redundancy in case one link goes down.

Select multiple ports by clicking on them and selecting the **Link Aggregation** checkbox to enable link aggregation for the selected ports.



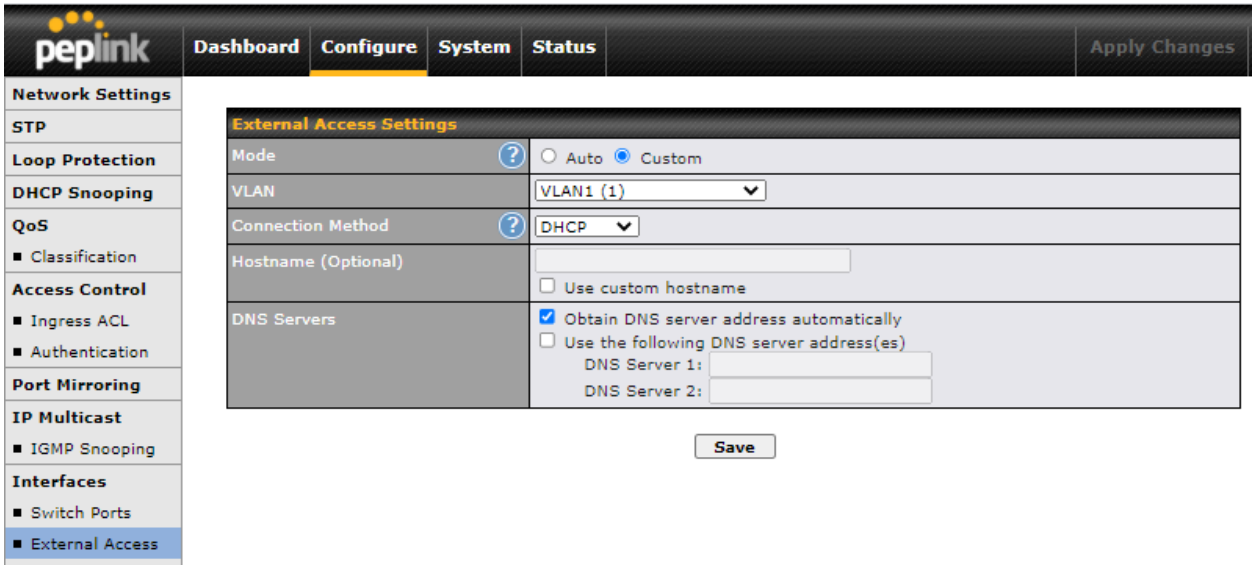
Batch Configuration

Configure multiple ports at once by selecting multiple ports.

Standalone menu options > Configure > Interfaces > External Access

This field allows you to choose the external access connection method which are:

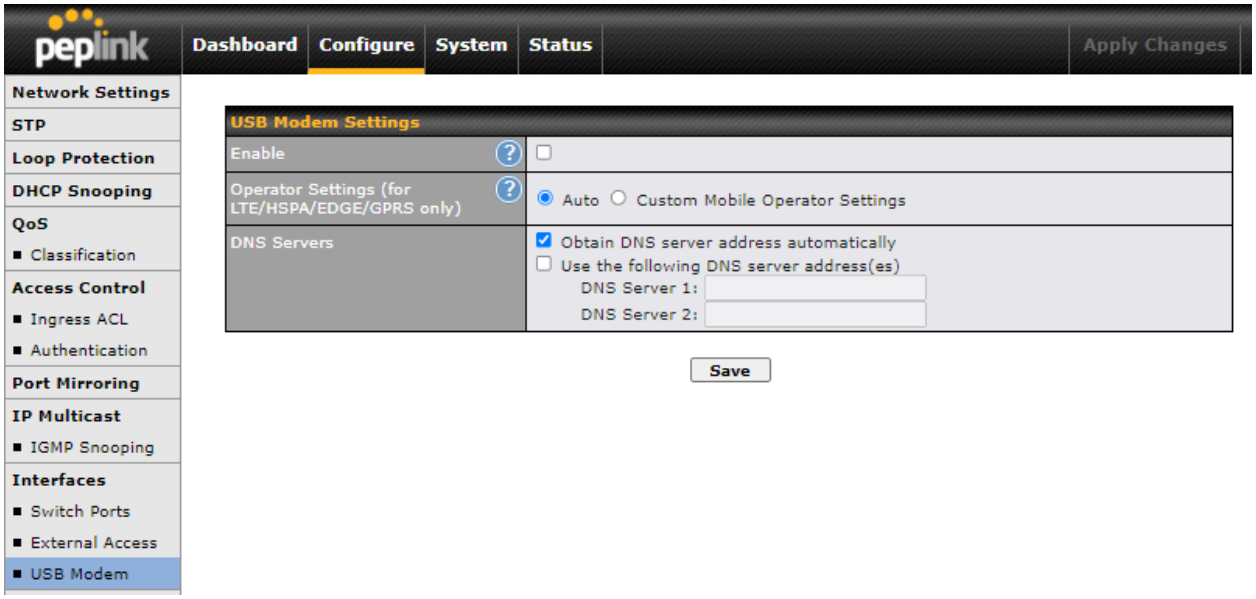
- **Auto** - Scan through all VLAN IDs (1-4094) to obtain a connection by DHCP.
- **Custom** - Connection will be obtained from the defined VLAN by the defined method (i.e. DHCP or Static IP).



Standalone menu options > Configure > Interfaces > USB Modem

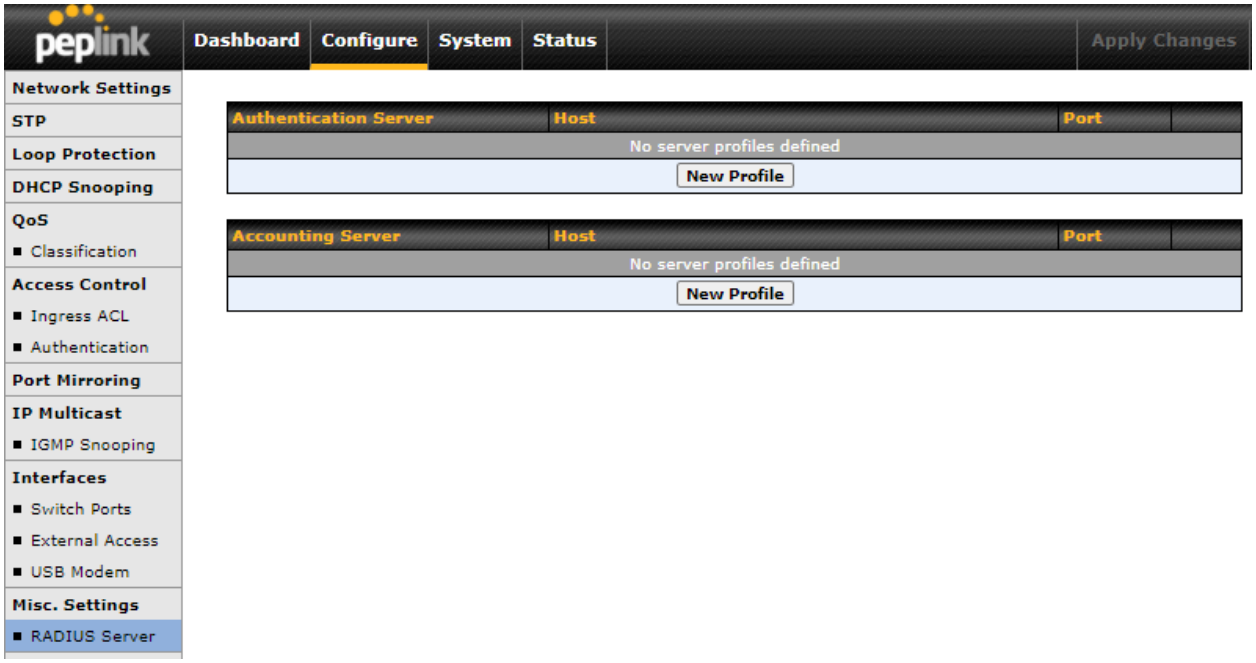
The USB port on the switch allows you to connect a USB modem to allow remotely access the switch for OOBM (Out-of-band-management) when it has lost all other external network access.
The connected USB Modem will remain in cold standby mode until the external access connection fails to contact the Peplink InControl server.
This option is only enabled when the SD Switch is configured through InControl.

A list of compatible USB modems are available on our website:
https://www.peplink.com/technology/4g3g-modem-support/

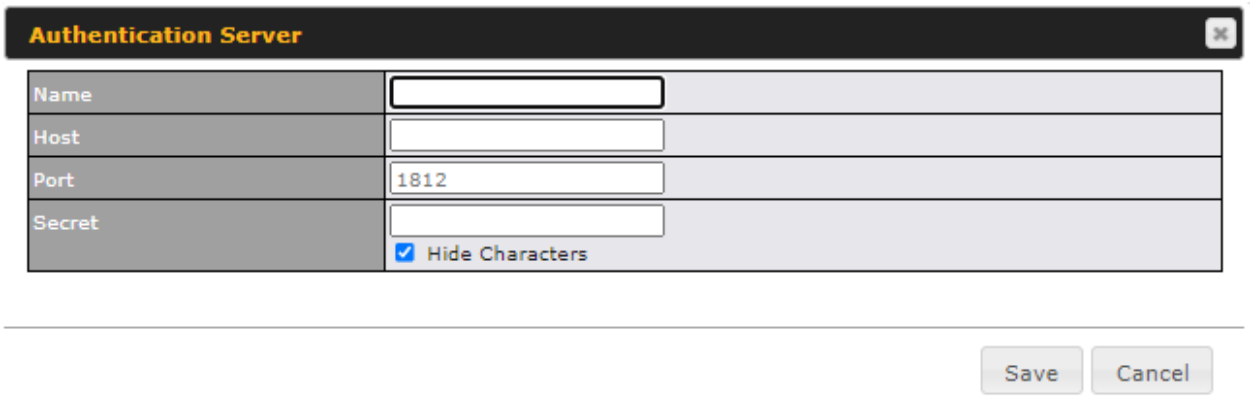


Standalone menu options > Configure > Misc. Settings > RADIUS Server

The RADIUS server on the SD-Switch allows you to configure multiple RADIUS server profiles. You may click "**New Profile**" to create to define the RADIUS server Authentication and Accounting profile.

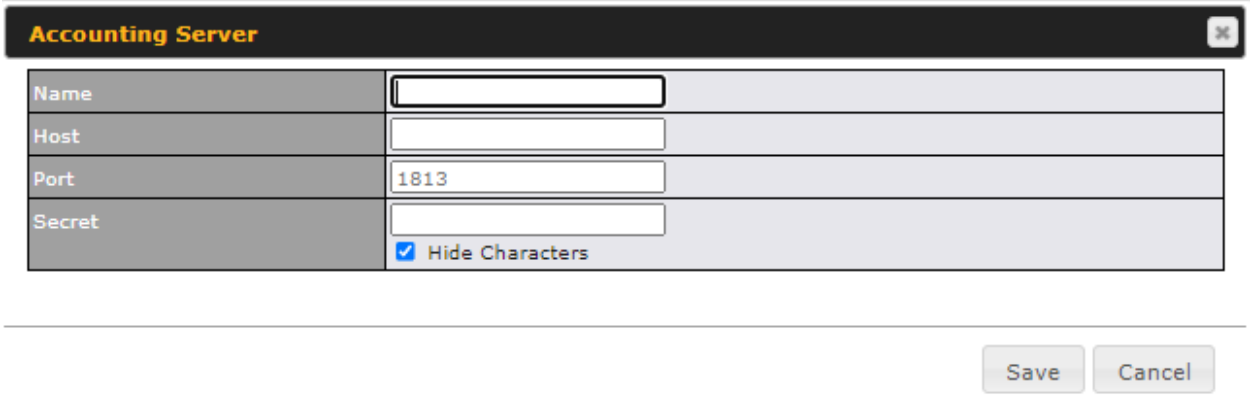


Authentication Server settings



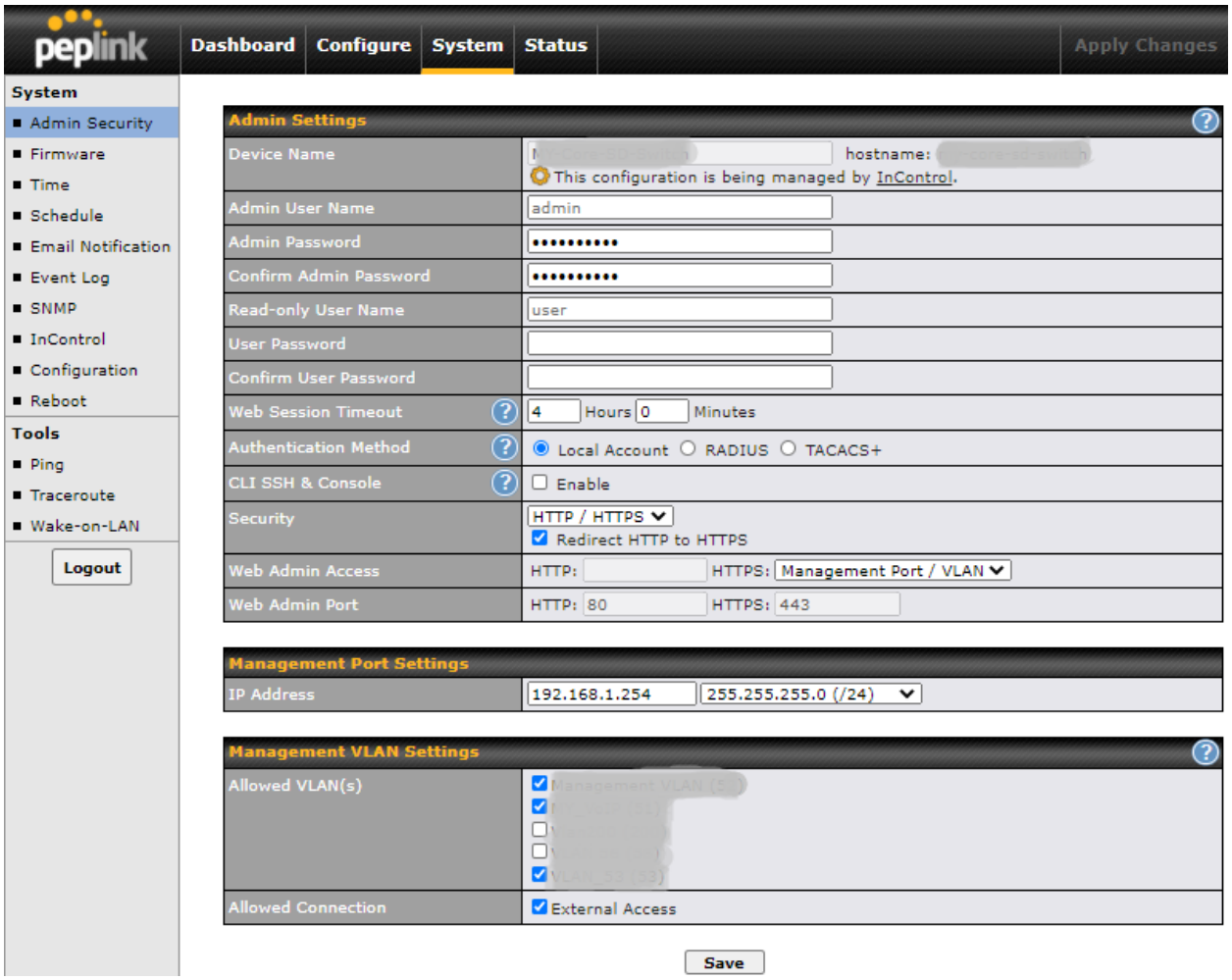
Authentication Server	
Name	RADIUS Profile Name
Host	Enter the IP address of the RADIUS server
Port	This field specifies to enter the UDP authentication port(s) used by your RADIUS server(s). Default port value is 1812.
Secret	Enter the RADIUS shared secret

Accounting Server settings



Accounting Server	
Name	RADIUS Profile Name
Host	Enter the IP address of the RADIUS server
Port	This field specifies to enter the UDP accounting port(s) used by your RADIUS server(s). Default port value is 1813.
Secret	Enter the RADIUS shared secret

Standalone menu options > System > Admin Security

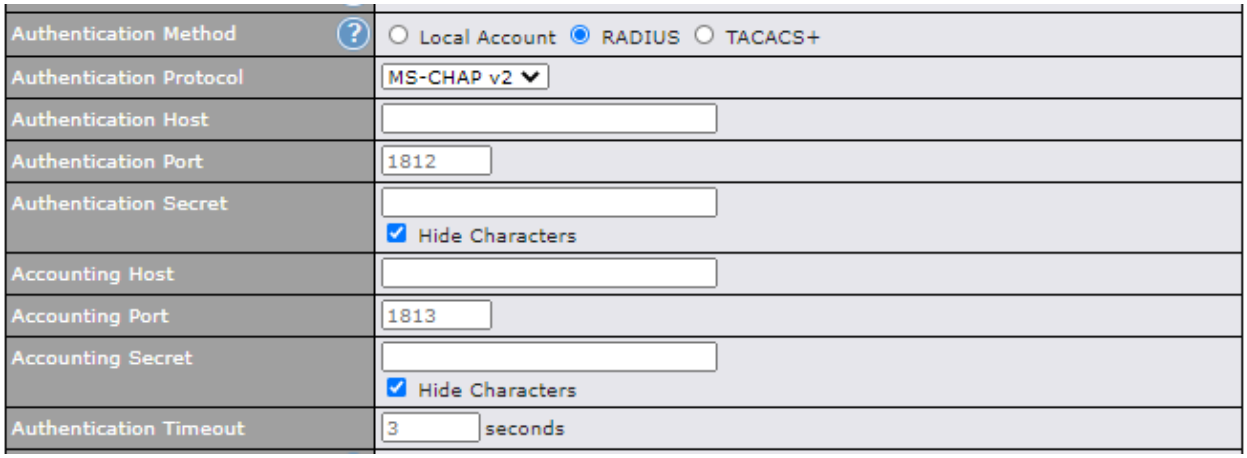


The Admin Security page allows you to configure the following settings:

Admin Settings	
Device Name	Switch hostname
Admin Username	Admin username
Admin Password	Admin password
Read-only username	Read-only username
User password	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. Before the session expires, you may click the Logout button in the Web Admin to exit the session. 0 hours 0 minutes signifies an unlimited session time. This setting should be used only in special situations as it will lower the system security level if users do not logout before closing the browser. The default setting is 4 hours 0 minutes
Authentication Method	If external authentication is selected, the web admin will authenticate using the corresponding external server. Local "admin" and "user" accounts will be disabled. However, when the device fails to communicate with the external server, local accounts are enabled to allow emergency access.
CLI SSH & Console	This field enables the CLI (Command Line Interface). The CLI can be accessed remotely via SSH (Secure Shell Protocol).
Security	HTTP / HTTPS sessions or both are allowed to connect to the web admin interface.
Web Admin Access	Access only allowed through Management Port, or through the Management port and a specific VLAN.
Web Admin Port	Port to connect to the web admin interface (default port is 80 for HTTP and 443 for HTTPS).

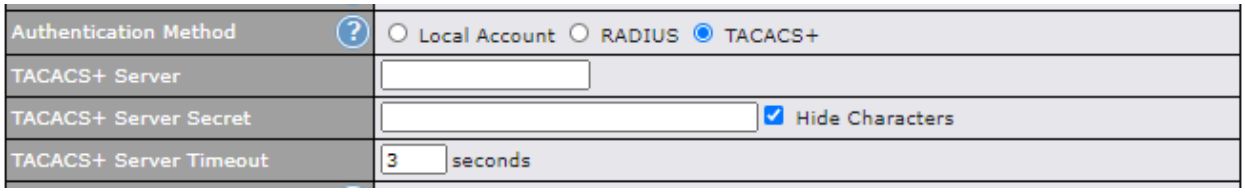
Authentication by RADIUS



When this option is enabled, the web admin will authenticate using an external RADIUS server. Authenticated users are treated as "admin" users with full read-write permission. Local "admin" and "user" accounts will be disabled.
However, when the device fails to communicate with the RADIUS server, local accounts are enabled to allow emergency access.

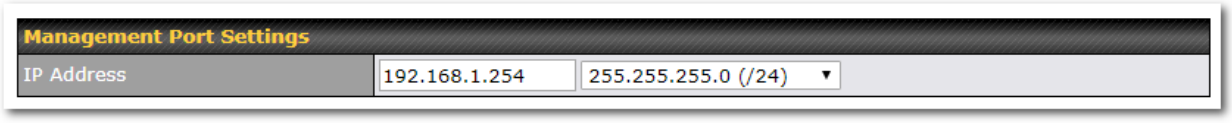
The Authentication Protocols supported are MS-CHAPv2 and PAP.

Authentication by TACACS+



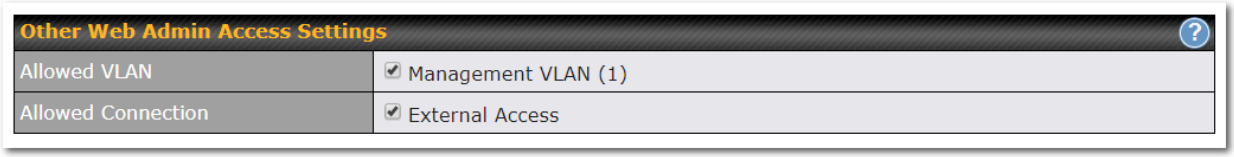
When this option is enabled, the web admin will authenticate using an external TACACS+ server. Authenticated users are treated as "admin" users with full read-write permission. Local "admin" and "user" accounts will be disabled.
However, when the device fails to communicate with the TACACS+ server, local accounts are enabled to allow emergency access.

Management Port Settings



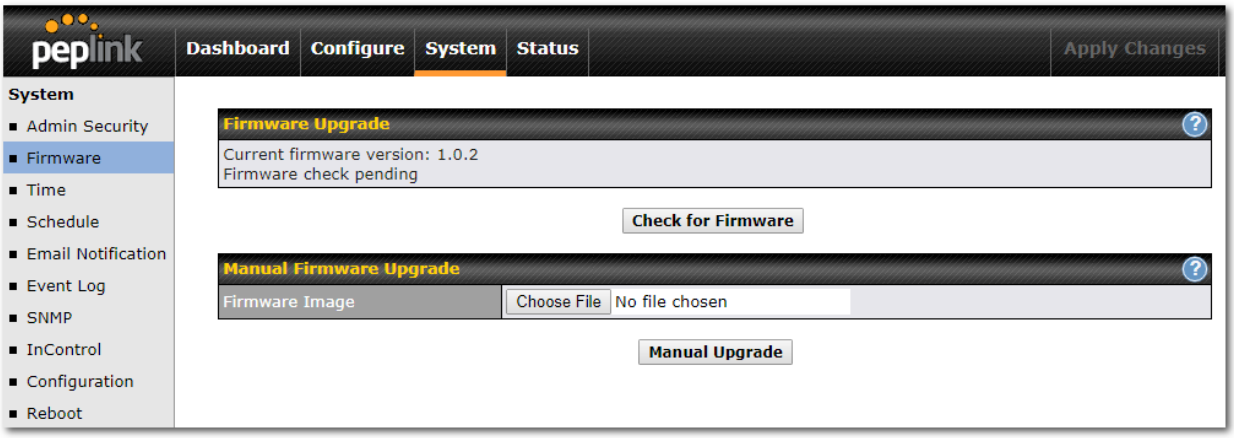
Configure the management port IP address and subnet mask.

Other Web Admin Access Settings



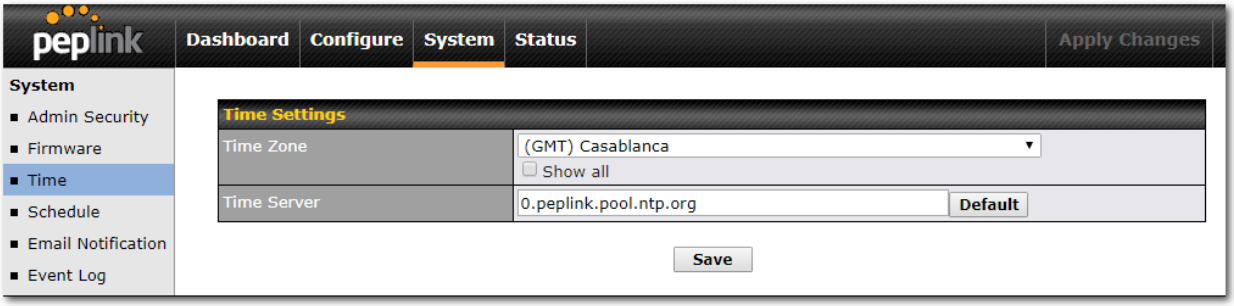
Select the allowed VLAN network to manage the SD-Switch.

Standalone menu options > System > Firmware



You can either click the **Check for Firmware** button to contact the firmware server to check for new firmware or manually upgrade the SD-Switch with a downloaded firmware file.
Firmware can be downloaded from the Peplink website: https://www.peplink.com/support/downloads/

Standalone menu options > System > Time



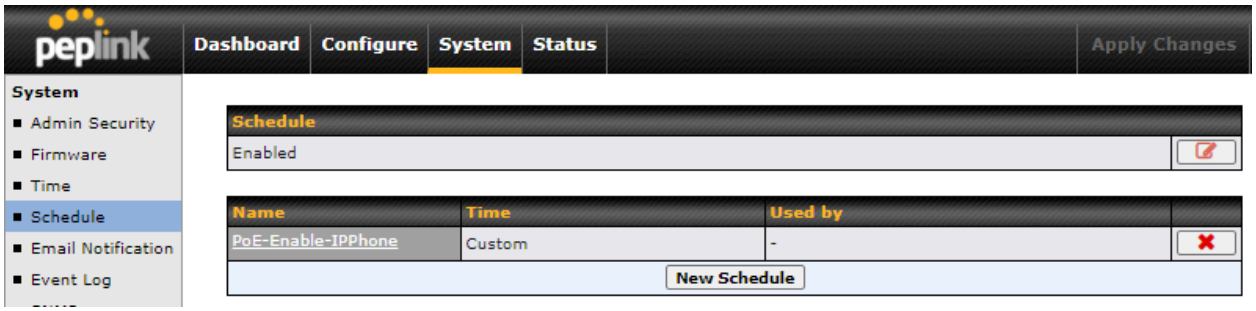
This section allows you to select a Time Zone and configure a Time Server.

Standalone menu options > System > Schedule

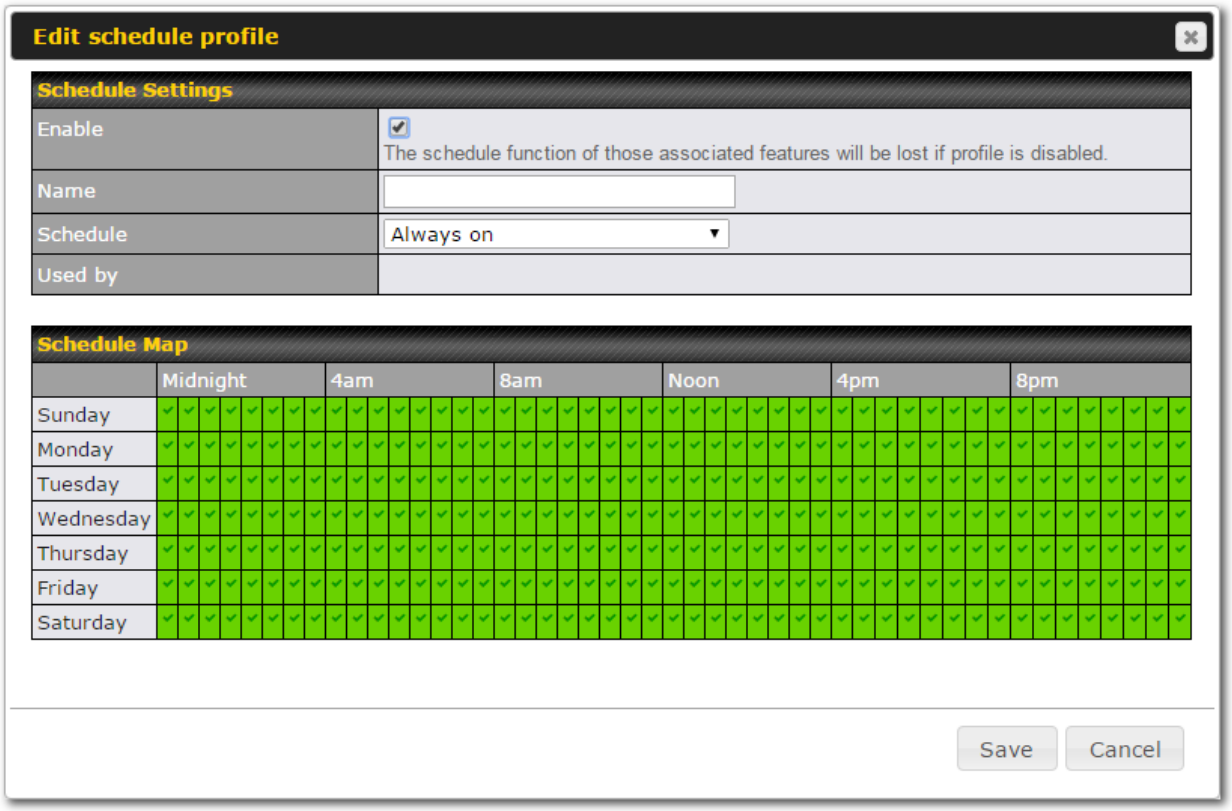
Schedules can be created and applied to port PoE settings.

Establish a Scheduling Profile

To Define a schedule, navigate to **System > Schedule** and then click the "**New Schedule**" button.

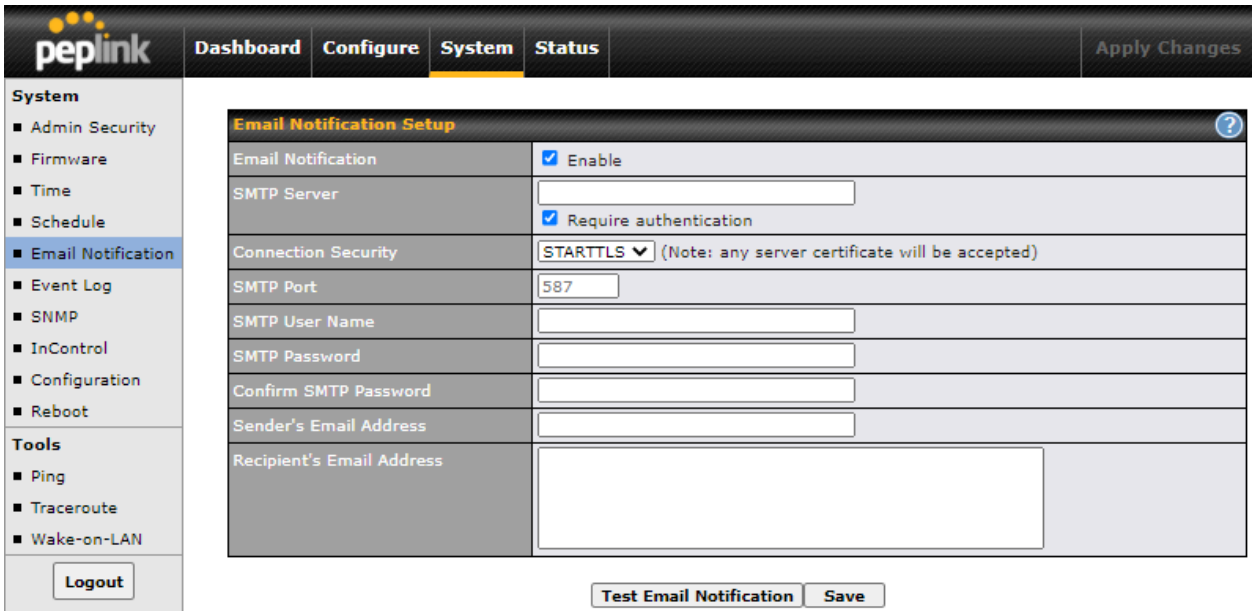


The following screen will appear. Enter the desired name and click the grid to define your schedule and then click "**Save**".



Click the "**Apply Changes**" text on the top-right corner to save your changes.

Standalone menu options > System > Email Notification



The feature Email Notification allows email to be sent to the listed recipient email addresses when the following events take place:

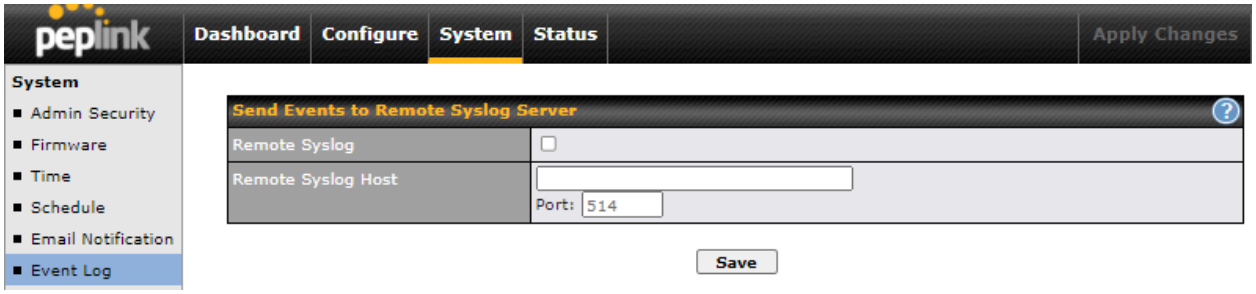
- Email notification test
- A new firmware version is available
- Health status changes for any USB Modem (OOBM) connection

Email Notification Settings	
Email Notification checkbox	This setting specifies whether or not to enable email notification.
SMTP Server	This setting specifies the SMTP server to be used for sending email. If the server requires authentication, check **Require authentication**.
Connection Security	This setting specifies via a drop-down menu one of the following connection security: • None • STARTTLS • SSL/TLS When the connection security is selected, SMTP Port will be changed.
SMTP Port	This field is for specifying the SMTP port number.
SMTP User Name / Password	This setting specifies the SMTP username and password while sending email. These options are shown only if **Require authentication** is checked in the SMTP Server setting.

Confirm SMTP Password	This field allows you to verify and confirm the new administrator password.
Sender's Email Address	This setting specifies the email address which the Peplink Switch will use to send its reports
Recipient's Email Address	This setting specifies the email address(es) to which the Peplink Switch will send email notifications. For multiple recipients, separate each email using the enter key.

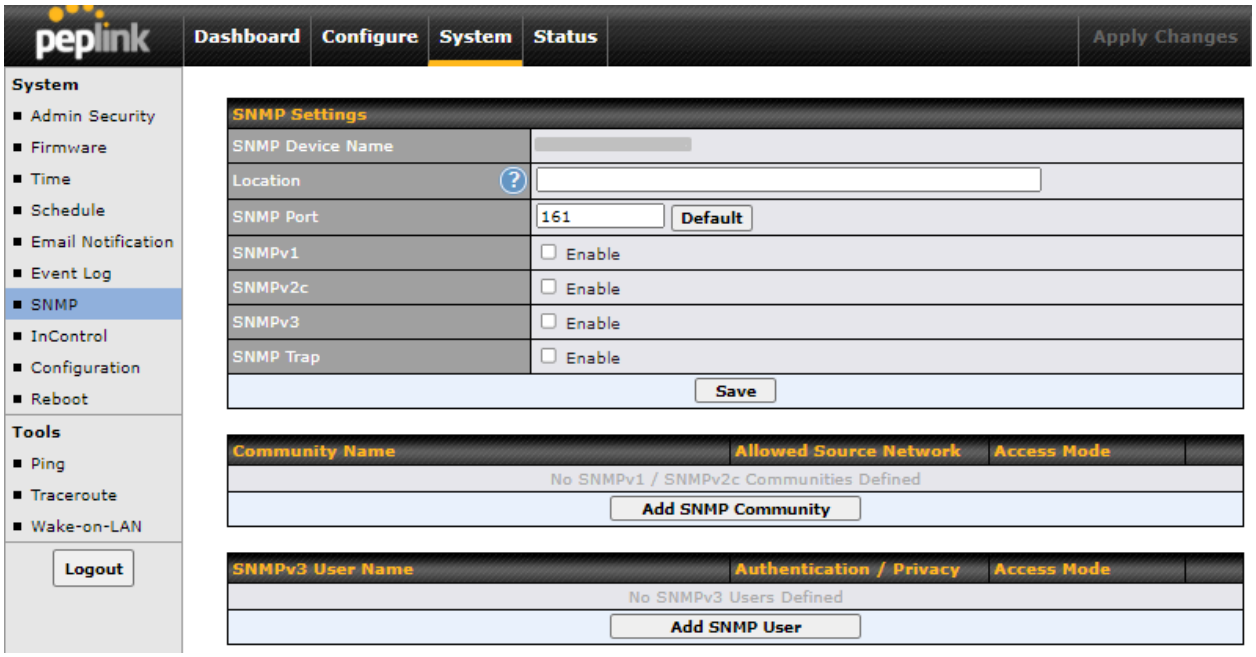
Click the button Test Email Notification and click Send Test Notification to send a testing email.

Standalone menu options > System > Event Log



Remote Syslog allows syslog messages to be sent to a specified remote syslog server.
You can configure a remote syslog host either in the form of an IP address or a server domain name.
The default Syslog port used and configured is UDP 514; this is an option that can be configured to use a different port.

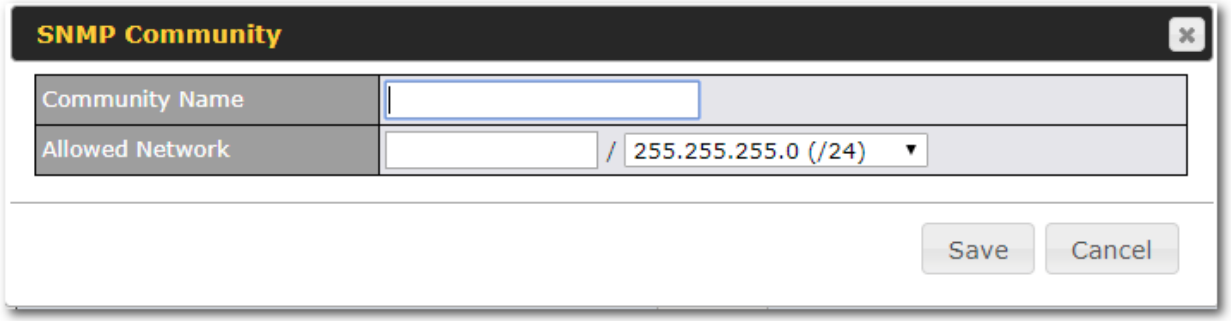
Standalone menu options > System > SNMP



SNMP or Simple Network Management Protocol is an open standard that can be used to collect information about the SD Switch.

SNMP Settings	
SNMP Device Name	This field shows the switch 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.
SNMPv2	This option allows you to enable SNMP version 2.
SNMPv3	This option allows you to enable SNMP version 3.

To add a community for either SNMPv1 or SNMPv2, click the Add SNMP Community button in the Community Name table, upon which the following screen is displayed:



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

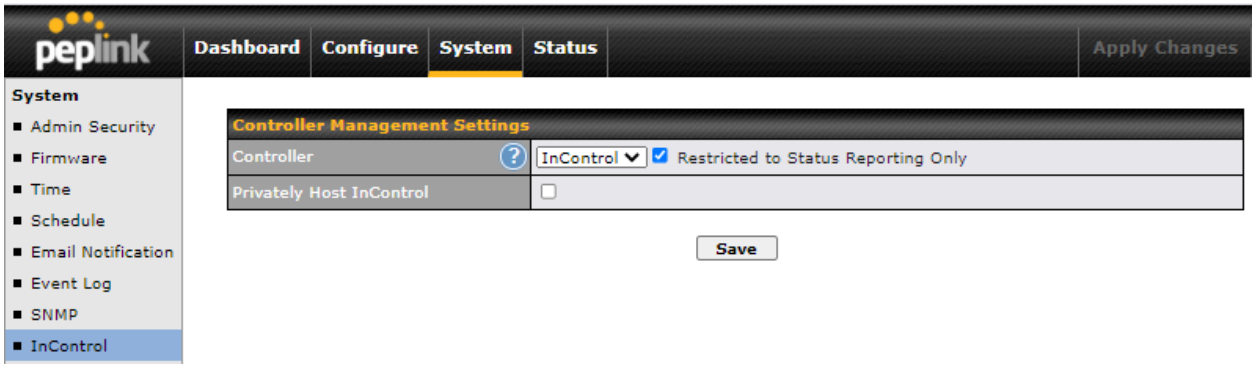
To define a username for SNMPv3, click Add SNMP User in the SNMPv3 User Name table, upon which the following screen is displayed:

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 protocol	This setting specifies via a drop-down menu one of the following valid privacy Protocols: • None • DES • AES When AES or DES is selected, an entry field will appear for the password.

Standalone menu options > System > InControl

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

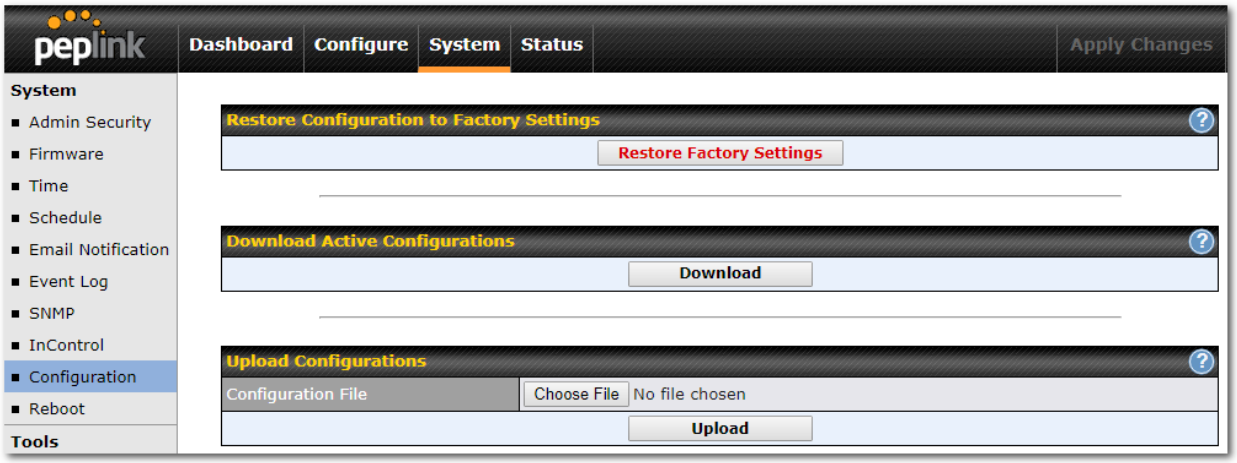


When the InControl settings is configured to "**enable!"** the device's status information will be sent to the Peplink InControl system and the switch can be managed from InControl.
When this setting is configured as **"enable (restricted to status reporting only)"** the switch is managed through the local web interface but can be monitored from InControl.
When this setting is **"disabled"** the switch is managed completely from the local web admin interface.

This device's usage data and configuration will be sent to the system if you enable the features in the system. Alternately, you could also privately host InControl. Simply check the box beside the "Privately Host InControl" open, and enter the IP Address of your InControl Host. 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.

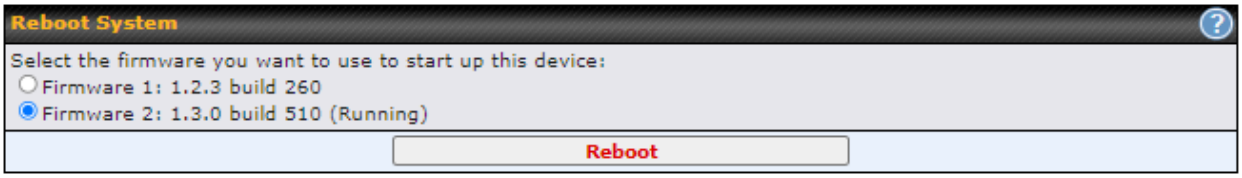
Standalone menu options > System > Configuration

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



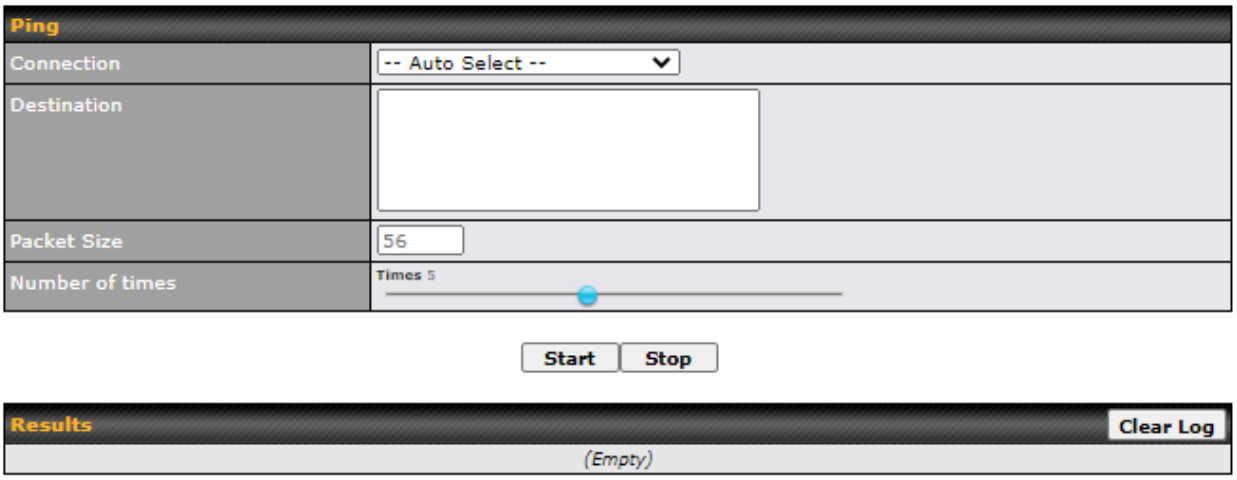
Configuration	
Restore Configuration to Factory Settings	The Restore Factory Settings button is to reset the configuration to factory default settings. After clicking the button, you will need to click the **Apply Changes** button on the top right corner to make the settings effective.
Download Active 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.

Standalone menu options > System > Reboot



Reboot the switch. For maximum reliability, the Peplink SD Switch Series stores two copies of firmware, and each copy can be a different version of firmware. 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.

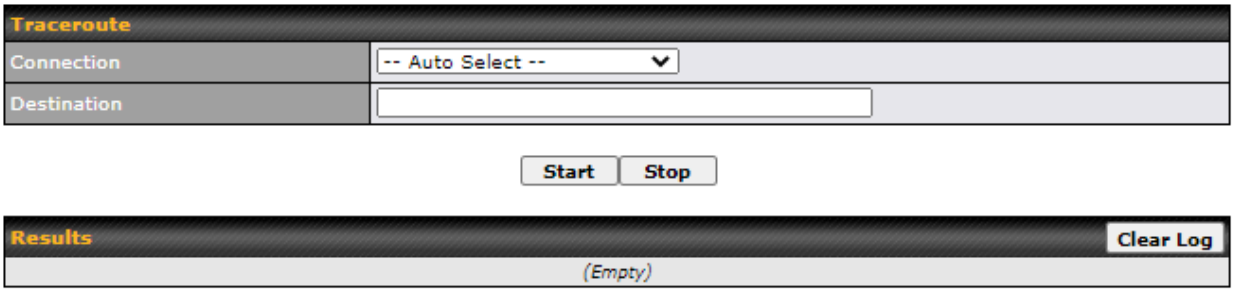
Standalone menu options > System > Tools > Ping



The ping test tool sends pings to a destination of choice through a specific connection. You can specify the number of pings in the field **Number of times** to a maximum number of 10 times. **Packet Size** can be set to a maximum of 1472 bytes.

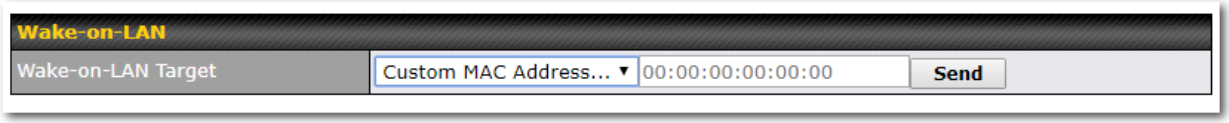
A system administrator can use the ping utility to manually check the connectivity of a particular LAN/WAN connection.

Standalone menu options > System > Tools > Traceroute



The traceroute test tool traces the routing path to a particular destination through a specific connection. A system administrator can use the traceroute utility to analyze the connection path of a LAN/WAN connection.

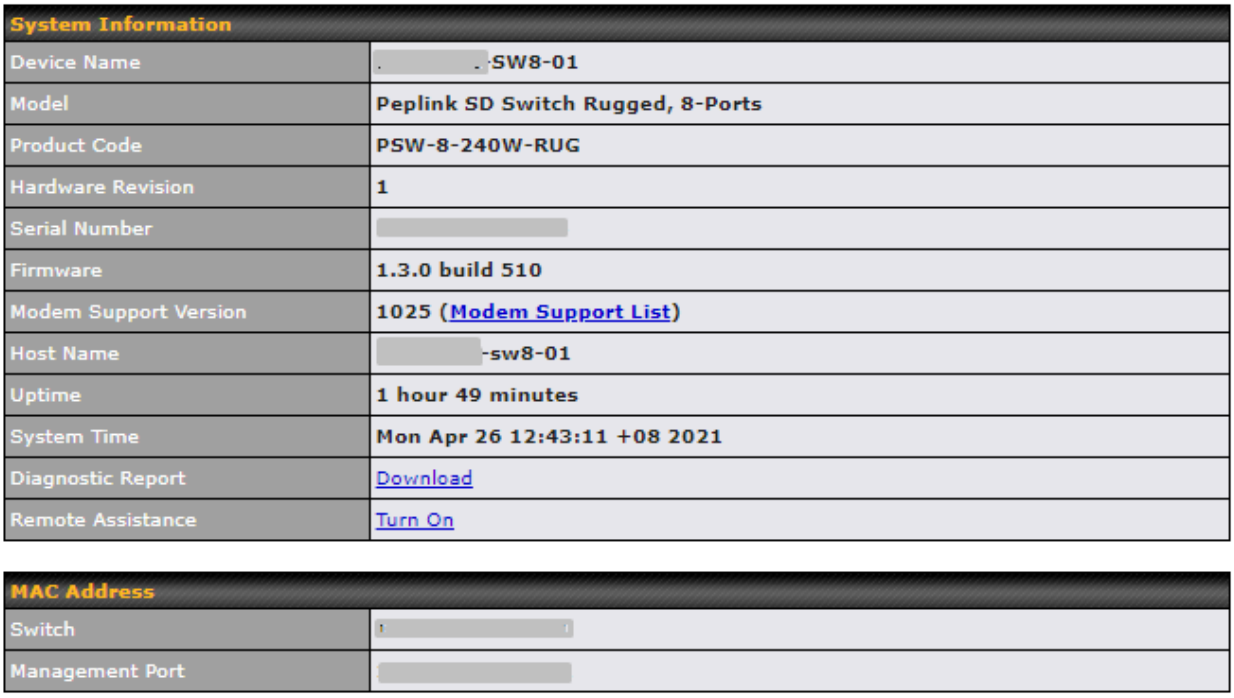
Standalone menu options > System > Tools > Wake-on-LAN



Wake-on-LAN is a technology that allows a network professional to remotely power on a computer or to wake it up from sleep mode (if this is supported by the client device).
Select a client from the drop-down list and click **Send** to remotely power on the client device.

Standalone menu options > Status > Device

This page displays the device's system information.



System Information	
Device Name	[redacted]-SW8-01
Model	Peplink SD Switch Rugged, 8-Ports
Product Code	PSW-8-240W-RUG
Hardware Revision	1
Serial Number	[redacted]
Firmware	1.3.0 build 510
Modem Support Version	1025 (Modem Support List)
Host Name	[redacted]-sw8-01
Uptime	1 hour 49 minutes
System Time	Mon Apr 26 12:43:11 +08 2021
Diagnostic Report	Download
Remote Assistance	Turn On

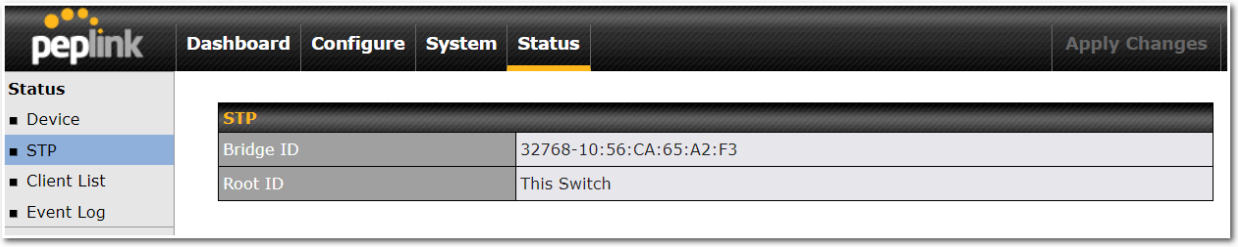
MAC Address	
Switch	[redacted]
Management Port	[redacted]

Legal

System information	
Device name	This is the name specified in the **Device Name** field located at **System > Device**.
Model	This displays the name of the model of the device.
Product Code	This displays the product code of this 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 on.
Modem Support Version	This displays the modem version of this device.
Host Name	This displays the host name (same as the device name).

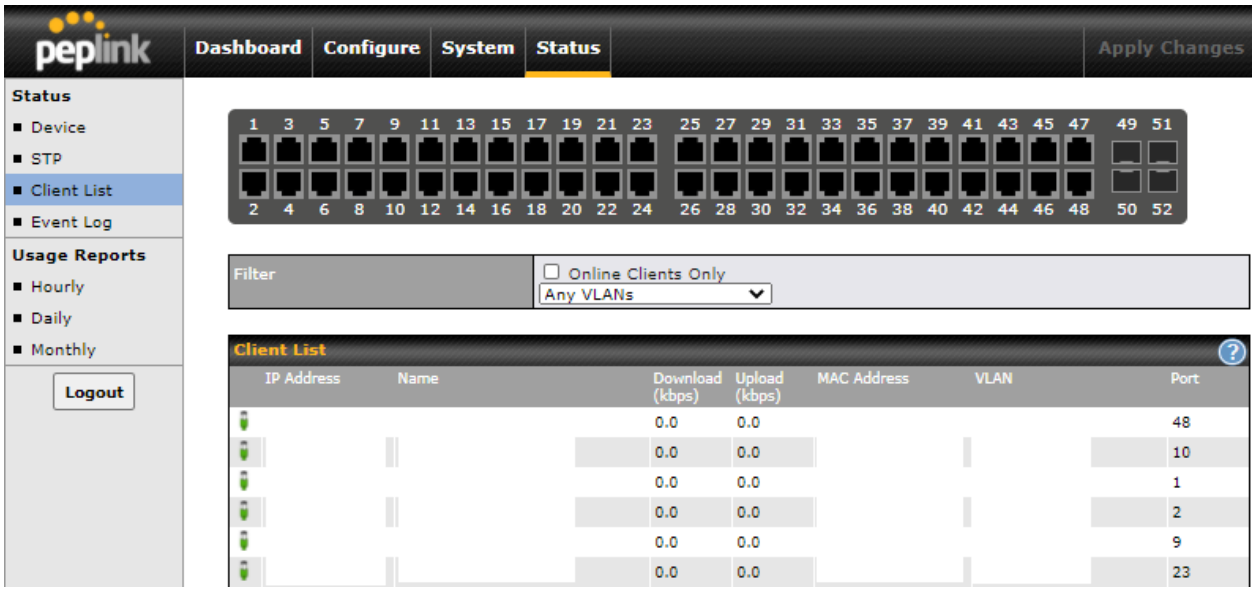
Uptime	This displays the length of time since the device was last rebooted.
System Time	This displays the current system time.
Diagnostic report	The **Download** link is for exporting a diagnostic report file required for system investigation.
Remote Assistance	Click **Turn on** to enable remote assistance.
Legal	The **Legal** link opens a webpage with legal information.

Standalone menu options > Status > STP



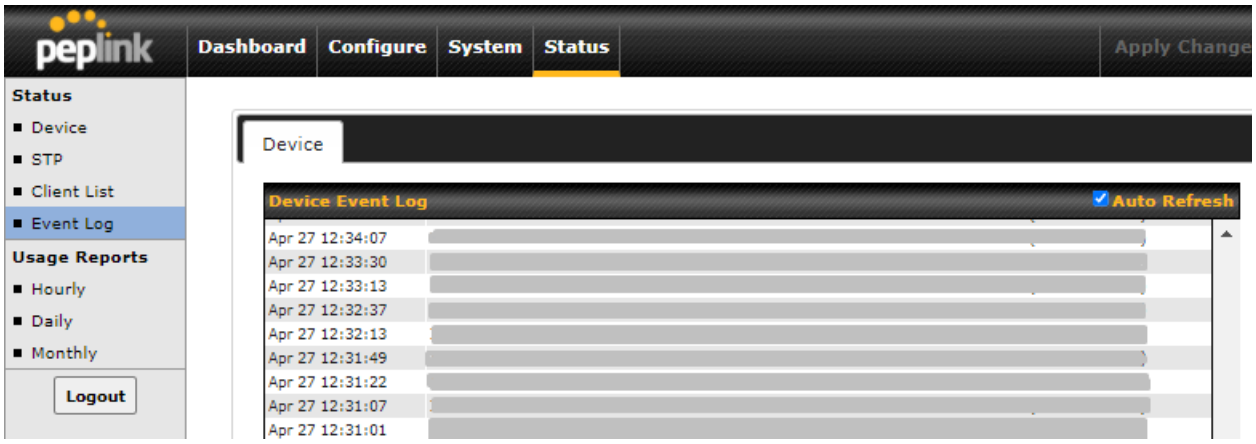
This page shows the status of the SD-switch STP bridge ID and Root ID

Standalone menu options > Status > Client List



This page lists all clients on LANs accessible to the SD-Switch. It lists client IP addresses from one or more VLANs, names, current download and upload rate, MAC address, VLAN, and Port used. Assign a name to a client by clicking on the **Name** field of the client and inputting a name.

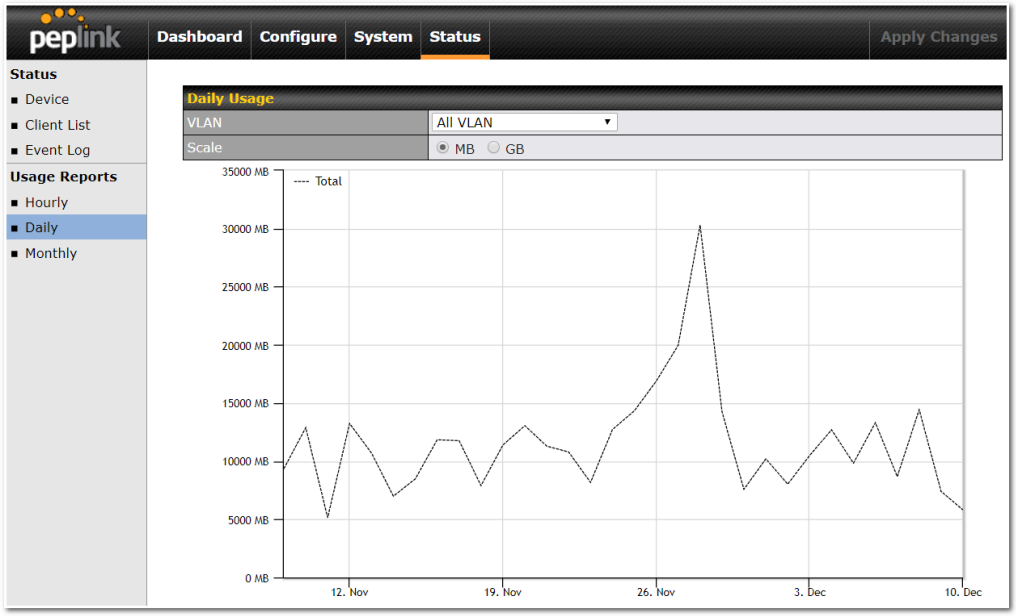
Standalone menu options > Status > Event Log



The log section displays a list of events that has taken place on the SD-Switch. Check **Auto Refresh** to refresh log entries automatically. Click the **Clear Log** button to clear the log.

Standalone menu options > Status > Usage Reports

Usage reports show the bandwidth usage in MB or GB for all VLANs or individual VLANs. Choose between Hourly, Daily and Monthly usage reports.



Additional information

Restoration of Factory Defaults

To restore the factory default settings on your Peplink SD-Switch unit, follow the steps below:

1. Locate the reset button on the back panel of the Peplink SD-Switch.
2. With a paperclip, press and keep the reset button pressed.

Note: There is a dual function to the reset button.

Hold for 5-10 seconds for admin password reset (Note: The LED status light blinks in RED 2 times and release the button, green status light starts blinking)

Hold for approximately 20 seconds for factory reset (Note: The LED status light blinks in RED 3 times and release the button, all LAN port lights start blinking)

After the Peplink SD-Switch 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.

Additional troubleshooting resources

Peplink Knowledge Base: https://forum.peplink.com/c/knowledgebase
Peplink Community Forums: https://forum.peplink.com/

Contact Us

Sales http://www.peplink.com/contact/sales/
Support http://www.peplink.com/contact/
Certified Peplink Partner http://www.peplink.com/partners/channel-partner-program/

FCC Requirements for Operation in the United States

Federal Communications Commission (FCC) Compliance Notice:

For SD Switch 48-Port, SD Switch 24-Port, SD Switch 24-Port 550W
SD Switch 16-Port Rugged, SD Switch 8-Port Rugged

Federal Communication Commission Interference Statement

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 it is 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.

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

Industry Canada Statement

(For SD Switch 48-Port, SD Switch 24-Port, SD Switch 24- Port 550W, SD Switch 16-Port Rugged, SD Switch 8-Port Rugged)

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.

Battery Caution Statement

Risk of explosion if the battery replaced by an incorrect type, place the battery into fire, a hot oven, extremely high temperature or low air pressure surrounding environment, the leakage of flammable liquid or gas, and mechanically crushing or cutting of the battery.

Mounting the Unit (SD Switch 16-Port Rugged, SD Switch 8-Port Rugged)

Wall Mount

The device is considered as MS1 and intended to be wall-mounted by multiple key holes.

Instructions state that the equipment is only suitable for mounting at heights ≦ 2M.

CE Statement for Peplink Switch (SD Switch 24-Port)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Electromagnetic Compatibility Directive 2014/30/EU

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8 5/F HK SPINNERS IND BLDG PHASE 6 481 CASTLE PEAK ROAD CHEUNG SHA WAN KL, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Switch
Model name of the appliance	Peplink Switch PSW-24-850W PSW-24-250W PSW-24-550W Pismo SW0
Trade name of the appliance	PEPWAVE / PEPLINK

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

EN 55022:2010
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024: 2010+A1:2015
IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am2:2013

Yours sincerely,

Antony Chong
Director of Hardware Engineering
Peplink International Limited

	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)

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

UK Statement for Peplink Switch (SD Switch 24-Port)

UK DECLARATION OF CONFORMITY

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Switch
Model name of the appliance	SD Switch 24-Port Peplink Switch PSW-24-850W PSW-24-250W PSW-24-550W Pismo SW0
Trade name of the appliance	PEPWAVE / PEPLINK

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

UK legislation

Electromagnetic Compatibility Regulations 2016
Electrical Equipment (Safety) Regulations 2016

UK Designed Standard

EN 55022:2010
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024: 2010+A1:2015
IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am2:2013

Yours sincerely,

Antony Chong
Director of Hardware Engineering
Peplink International Limited

CE Statement for Peplink Switch (SD Switch 8-Port)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Electromagnetic Compatibility Directive 2014/30/EU, and Low Voltage Directive 2014/35/EU.

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Switch
Model name of the appliance	SD Switch SD-Switch, 8-Ports 8 Port Switch PSW-8-240W PSW-8-240W-RUG
Trade name of the appliance	peplink / PEPWAVE / pismo

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

EN 55032:2015 +AC: 2016-07
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024:2010+A1:2015
EN 60950-1:2006+A11: 2009+A1:2010+A12:2011+A2:2013

Yours sincerely,

Keith Chau
General Manager
Peplink International Limited

	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)

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

UK Statement for Peplink Switch (SD Switch 8-Port)

UK DECLARATION OF CONFORMITY

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Switch
Model name of the appliance	SD Switch SD-Switch, 8-Ports 8 Port Switch PSW-8-240W PSW-8-240W-RUG
Trade name of the appliance	PEPWAVE / PEPLINK

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

UK legislation

Electromagnetic Compatibility Regulations 2016
Electrical Equipment (Safety) Regulations 2016

UK Designed Standard

EN 55032:2015 +AC: 2016-07
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024:2010+A1:2015
EN 60950-1:2006+A11: 2009+A1:2010+A12:2011+A2:2013

Yours sincerely,

Antony Chong
Director of Hardware Engineering
Peplink International Limited

CE Statement for Peplink Switch (SD Switch 48-Port)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Electromagnetic Compatibility Directive 2014/30/EU, and Low Voltage Directive 2014/35/EU.

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Switch
Model name of the appliance	SD Switch SD-Switch, 48-Ports 48 Port Switch PSW-48-800W
Trade name of the appliance	peplink / PEPWAVE / pismo

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

EN 55032:2015 +AC: 2016-07
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024:2010+A1:2015
EN 60950-1:2006+A11: 2009+A1:2010+A12:2011+A2:2013

Yours sincerely,

Keith Chau
General Manager
Peplink International Limited

	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)

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

UK Statement for Peplink Switch (SD Switch 48-Port)

UK DECLARATION OF CONFORMITY

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	Peplink Switch
Model name of the appliance	SD Switch SD-Switch, 48-Ports 48 Port Switch PSW-48-800W
Trade name of the appliance	PEPWAVE / PEPLINK

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

UK legislation

Electromagnetic Compatibility Regulations 2016
Electrical Equipment (Safety) Regulations 2016

UK Designed Standard

EN 55032:2015 +AC: 2016-07
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024:2010+A1:2015
IEC 62368-1:2014

Yours sincerely,

Antony Chong
Director of Hardware Engineering
Peplink International Limited

CE Statement for Peplink Switch (SD Switch 16-Port)

DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Electromagnetic Compatibility Directive 2014/30/EU, and Low Voltage Directive 2014/35/EU.

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	PEPWAVE / PEPLINK Wireless Product
Model name of the appliance	Peplink SD Switch Peplink Switch 16 Port Switch SD-Switch, 16-ports PSW-16-240W PSW-16-240W-RUG PismoSW3 Pismo SW3 Peplink SD Switch 16-Port Rugged SD Switch 16P Rugged
Trade name of the appliance	PEPWAVE / PEPLINK

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

EN 55032: 2015 + AC:2016-07
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55035: 2017
EN 60950-1:2006+A11: 2009+A1:2010+A12:2011+A2:2013

Yours sincerely,

Antony Chong
Director of Hardware Engineering
Peplink International Limited

	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)

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

UK Statement for Peplink Switch (SD Switch 16-Port)

UK DECLARATION OF CONFORMITY

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	PEPWAVE / PEPLINK Wireless Product
Model name of the appliance	Peplink SD Switch Peplink Switch 16 Port Switch SD-Switch, 16-ports PSW-16-240W PSW-16-240W-RUG PismoSW3 Pismo SW3 Peplink SD Switch 16-Port Rugged SD Switch 16P Rugged
Trade name of the appliance	PEPWAVE / PEPLINK

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UK legislation

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UK Designed Standard

EN 55032: 2015 + AC:2016-07
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55035: 2017
EN 60950-1:2006+A11: 2009+A1:2010+A12:2011+A2:2013

Yours sincerely,

Antony Chong
Director of Hardware Engineering
Peplink International Limited

USB WAN Modem Port Specification

SD Swtich Series

	SD Swtich Rugged, 8-Port	SD Swtich Rugged, 16-Port	SD Swtich Rugged, 24-Port	SD Swtich, 24-Port	SD Swtich, 48-Port
Output Rating	**5V DC, 2A**	**5V DC, 2A**	**5V DC, 2A**	**5V DC, 2A**	**5V DC, 2A**