

Peplink Switch

User Manual

Peplink Products:

24 PoE 2.5G Switch Rugged / 24 PoE 2.5G Switch / 48 PoE 2.5G Switch

Version 1.0.0

February 2025

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1. Introduction and Scope

The Peplink Switch range consists of fully managed, PoE Multi-Gigabit switches with Cloud Intelligence, enabling easy configuration and troubleshooting.

Switch management is hosted on our InControl cloud management platform (available in both public and private versions), allowing you to configure your switch from any web browser.

Simplify management and reduce maintenance time by unifying VLAN management across all your Peplink devices (routers and switches).

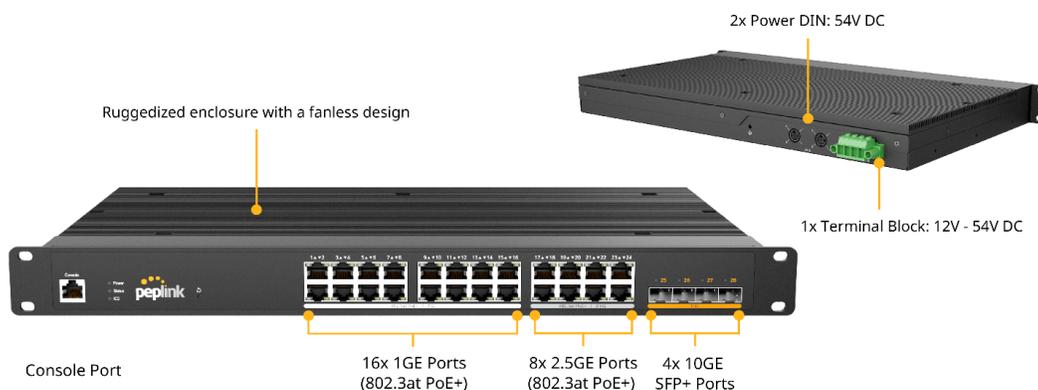
Introducing the Switch Controller, a new feature coming with firmware version 8.5.2 for Peplink routers and switches. This tool is designed to efficiently manage multiple switches through a centralized local interface, similar to how the AP Controller manages Access Points.

The Switch Controller serves as a centralized management hub, offering on-site configuration capabilities. By connecting a Peplink router to the switch, users can oversee and control switches locally.

Peplink switches are currently available with 24 or 48 PoE ports.

2. Models & Specifications

24 PoE 2.5G Switch Rugged



LED Indicators:

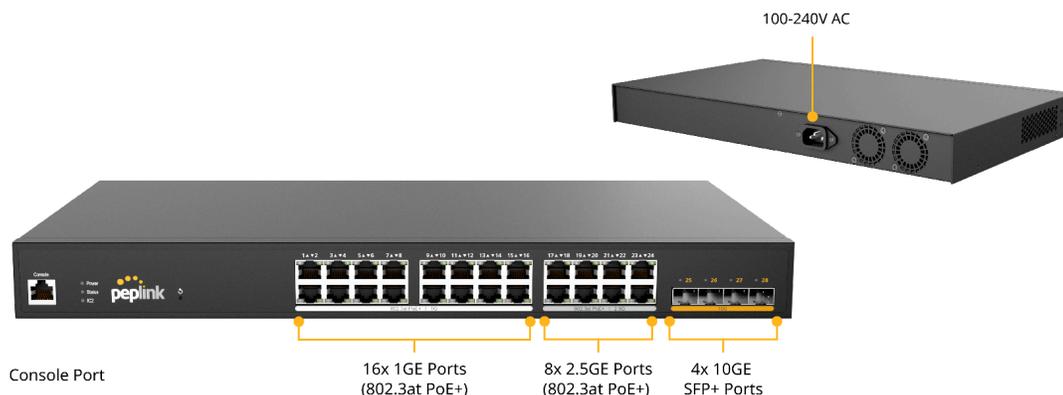
Status Indicators		
Power	OFF	No power
	Green (Solid light)	System boot on-going
	Green (Solid light)	System boot ready
Status	OFF	System boot on-going / System off
	Green (Solid light)	System boot ready
IC2	OFF	No link with IC2
	Green (Solid light)	IC2 connected

Ethernet Ports		
RJ45 Left LED (Activity)	OFF	Port is not connected
	Amber (Blinking)	Data is transferring
	Amber (Solid Light)	Port is connected
RJ45 Right LED (PoE Switch)	Off	PoE disable
	Green (Solid Light)	PoE Enable (even no cable is connected)
RJ45 Right LED (PoE Switch)	Off	Other speed / No link

SFP Ports		
SFP LED (Activity)	Off	No link
	Green (Blinking)	Activity
	Green (Solid light)	Link

Reset Button		
Hold reset button	0 - 10 seconds	Status light (green) blinking slowly.
	10 -15 seconds	Status light (green) blinking fast
	Over 15 seconds	Status light off, release reset button and device start reboot.

24 PoE 2.5G Switch



LED Indicators:

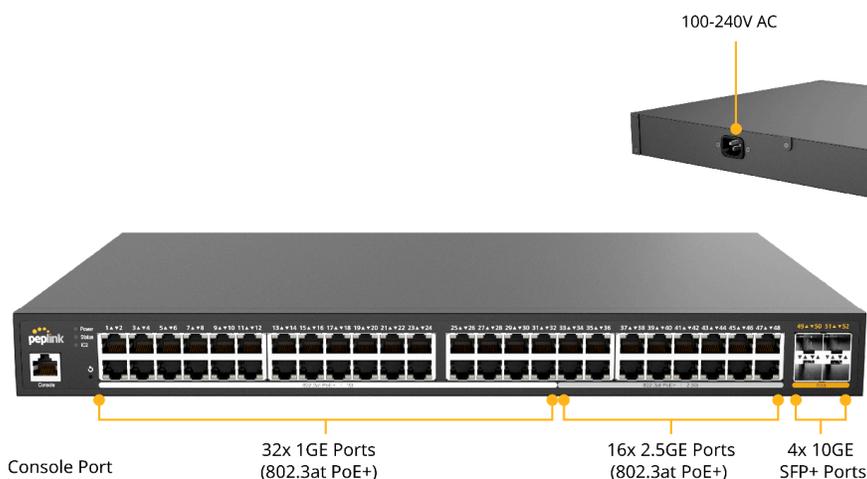
Status Indicators		
Power	OFF	No power
	Green (Solid light)	System boot on-going
	Green (Solid light)	System boot ready
Status	OFF	System boot on-going / System off
	Green (Solid light)	System boot ready
IC2	OFF	No link with IC2
	Green (Solid light)	IC2 connected

Ethernet Ports		
RJ45 Left LED (Activity)	OFF	Port is not connected
	Amber (Blinking)	Data is transferring
	Amber (Solid Light)	Port is connected
RJ45 Right LED (PoE Switch)	Off	PoE disable
	Green (Solid Light)	PoE Enable (even no cable is connected)
RJ45 Right LED (PoE Switch)	Off	Other speed / No link
	Green (Solid Light)	Highest speed

SFP Ports		
SFP LED (Activity)	Off	No link
	Green (Blinking)	Activity
	Green (Solid light)	Link

Reset Button		
Hold reset button	0 - 10 seconds	Status light (green) blinking slowly.
	10 -15 seconds	Status light (green) blinking fast
	Over 15 seconds	Status light off, release reset button and device start reboot.

48 PoE 2.5G Switch



LED Indicators:

Status Indicators		
Power	OFF	No power
	Green (Solid light)	System boot on-going
	Green (Solid light)	System boot ready
Status	OFF	System boot on-going / System off
	Green (Solid light)	System boot ready
IC2	OFF	No link with IC2
	Green (Solid light)	IC2 connected

Ethernet Ports		
RJ45 Left LED (Activity)	OFF	Port is not connected
	Amber (Blinking)	Data is transferring
	Amber (Solid Light)	Port is connected
RJ45 Right LED (PoE Switch)	Off	PoE disable
	Green (Solid Light)	PoE Enable (even no cable is connected)
RJ45 Right LED (PoE Switch)	Off	Other speed / No link
	Green (Solid Light)	Highest speed

SFP Ports		
SFP LED (Activity)	Off	No link
	Green (Blinking)	Activity
	Green (Solid light)	Link

Reset Button		
Hold reset button	0 - 10 seconds	Status light (green) blinking slowly.
	10 -15 seconds	Status light (green) blinking fast
	Over 15 seconds	Status light off, release reset button and device start reboot.

3. Features

Networking

- Link Aggregation (LACP)
- Spanning Tree Protocol
- Inter-VLAN routing
- DHCP snooping
- Loop protection
- RSTP

Hardware

- PoE+ Compatible Ports
- Supported 2.5Gpbs GE ports

Power Management

- True Power Consumption Reporting

Device Management

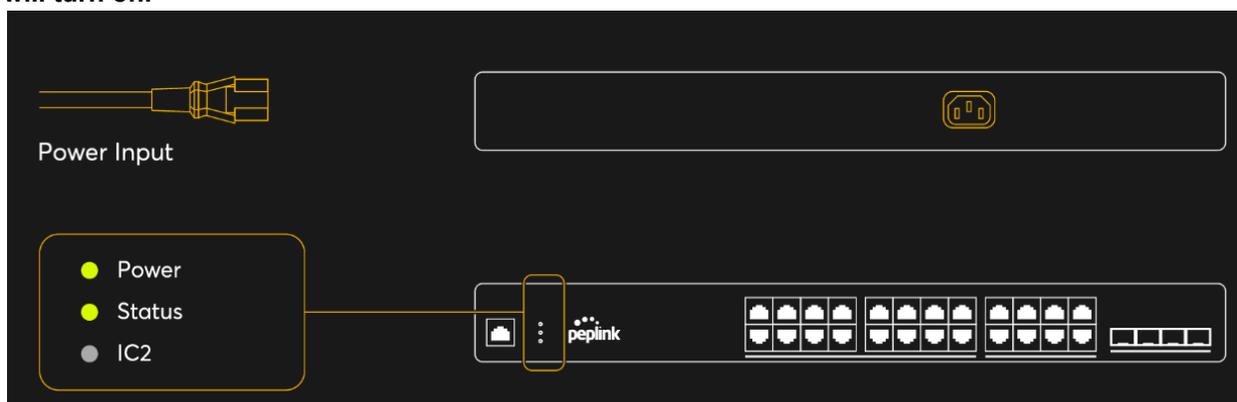
- InControl Cloud Management

4. Quick Start Guide

Managed by InControl 2:

1. Power on the switch and connect it to the internet.

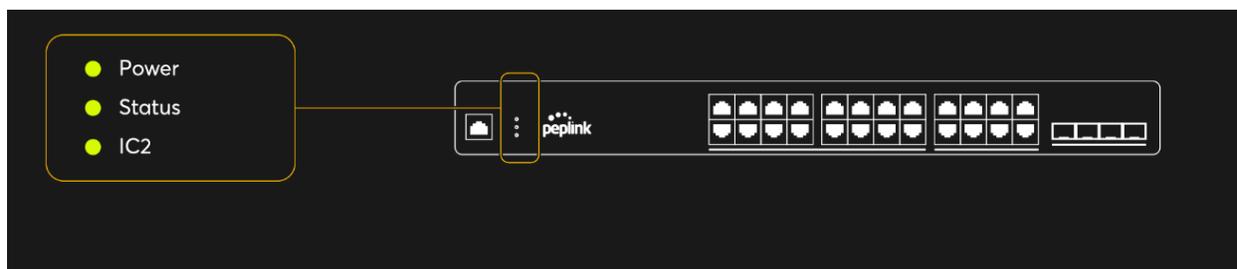
Unbox your Peplink switch and power on the device. Once plugged in, the Power and Status lights will turn on.



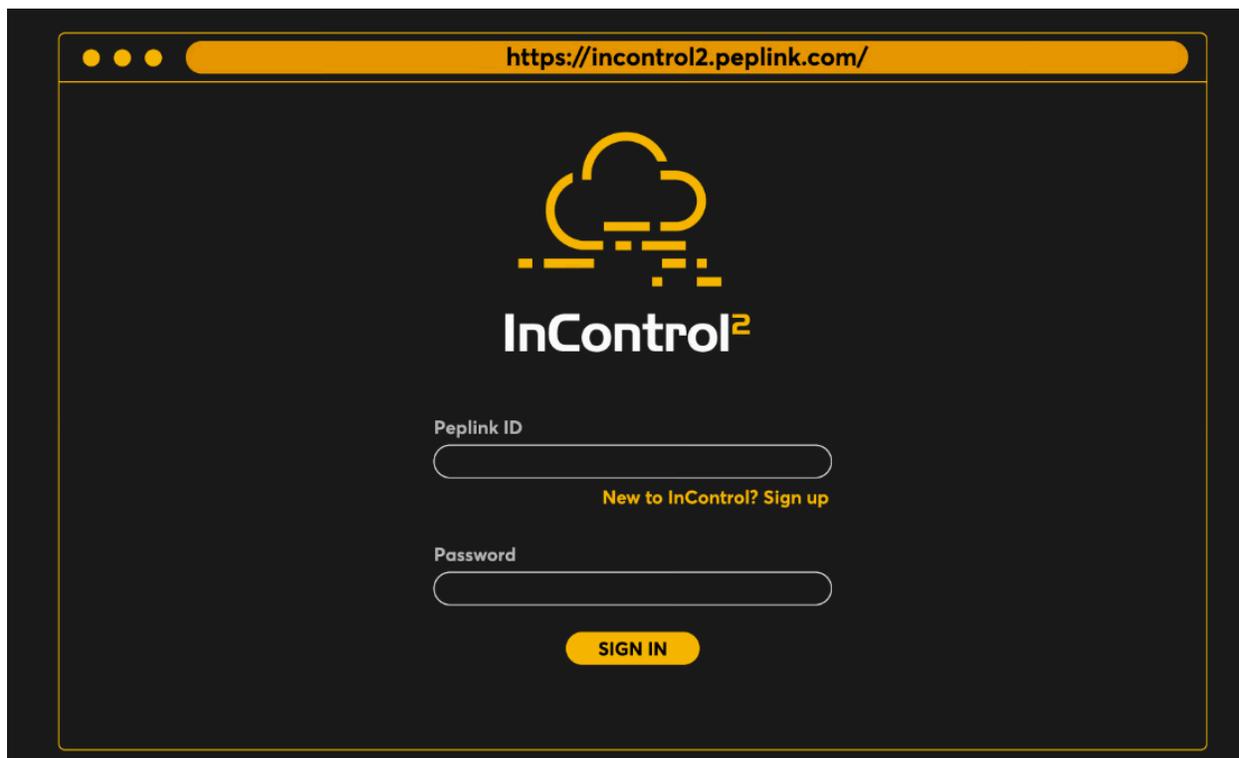
2. Connect your switch to your local network by plugging a LAN cable into one of the available GE or SFP LAN ports.



3. The IC2 light will turn green when the device is ready to be configured on InControl 2.

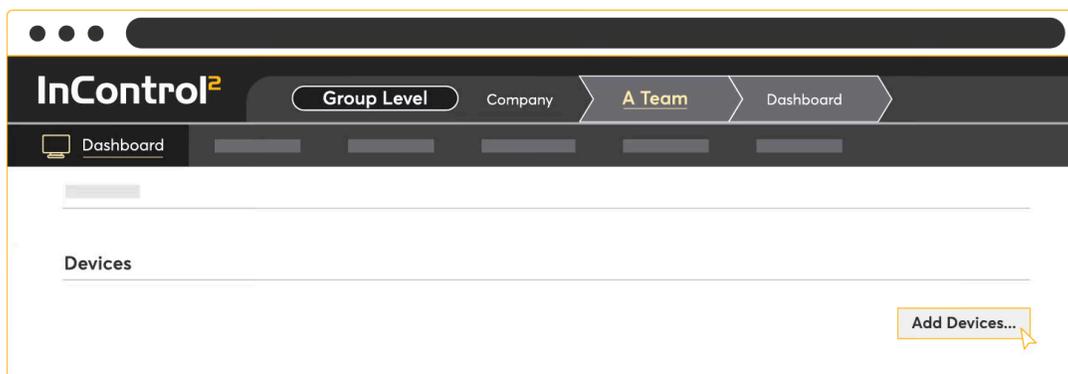


4. Registering the switch on InControl 2. Navigate to InControl 2 and log in to your account. If you don't have one yet, please create an account now.



5. Navigate to the organization where you would like to assign the switch. For new accounts, please create a new organization and group.

6. Under the Group Level, click Add Device.



7. Enter the Serial Number of your Peplink switch.

InControl² Group Level Company **A Team** Settings Add Devices

Settings

Add Devices Into Groups

Serial numbers:

Next... Cancel

Assign the switch to a device group for **better management**. Groups allow you to apply common configurations, monitor network performance, and set up notifications for a set of devices.

Serial Number can be found:

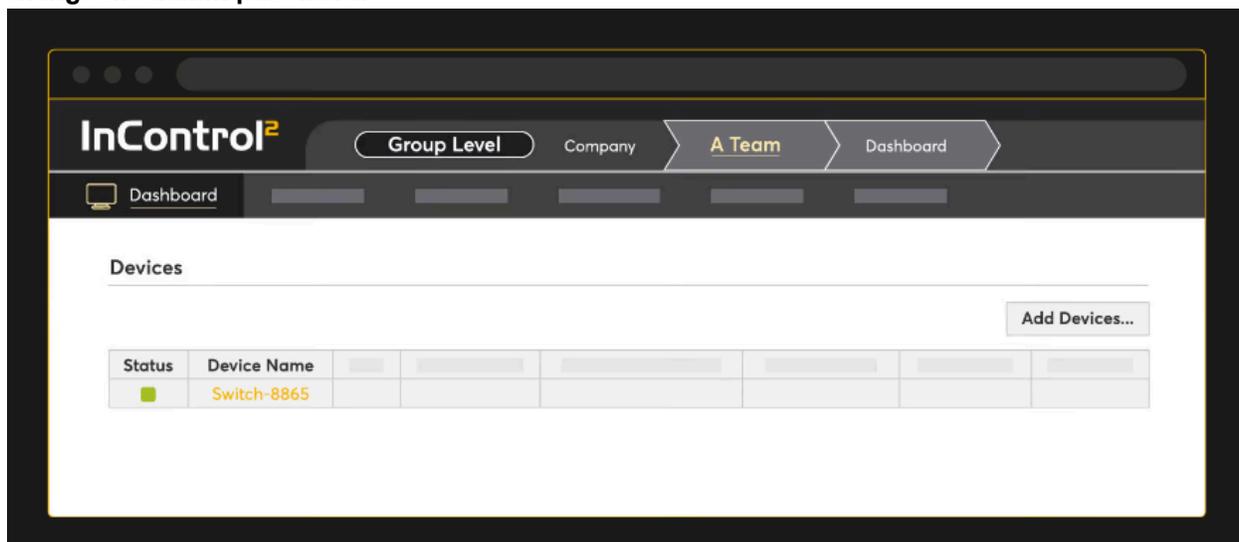
On the label on the box of the device **OR** On the switch's web admin on the top left corner

Serial No: 1234-56AB-CDEF

peplink 1234-56AB-CDEF

Device Connection

8. Once the device is added, it should appear under your Group Level's device list in InControl 2. A warning message icon will appear beside the Device Name, which is to advise the user to change the admin password.

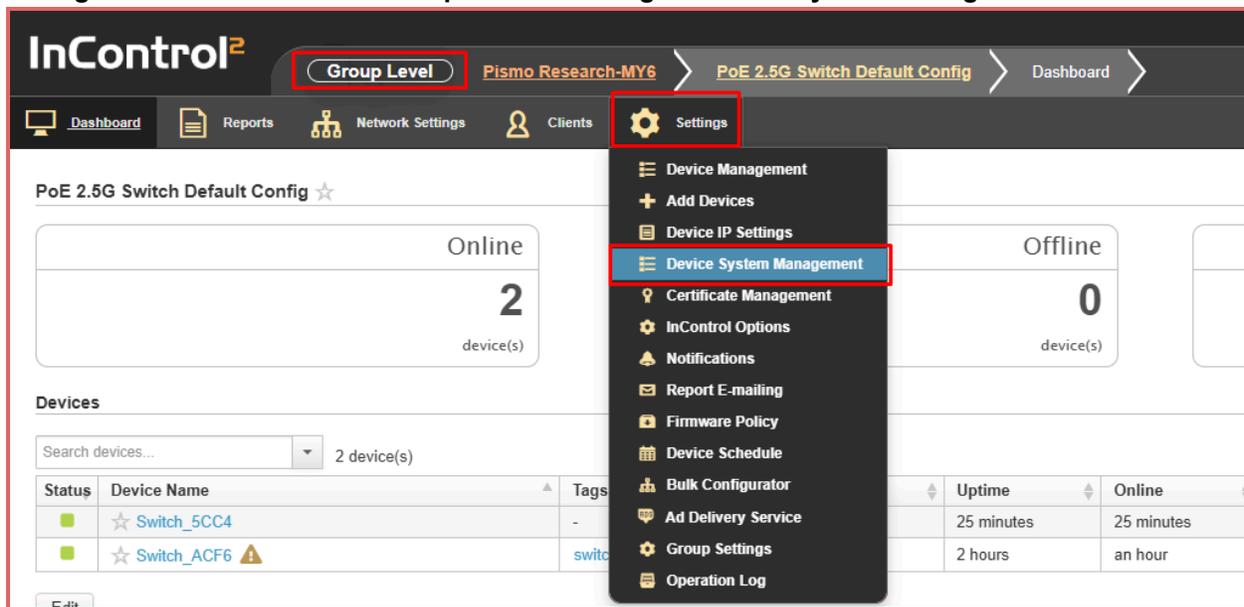


Status	Device Name	Tags	Product
■	☆ Switch_5CC4		
■	☆ Switch_ACF6 		

The device's web admin password remains with the default one. You are advised to change it for security reason. You may visit the [Device System Management](#) page to manage the admin password of the devices in this group.

Edit

9. To manage the device password, the user may enable the option “Device Web Admin and CLI Management” from InControl Group Level > Settings > Device System Management.



For more information about “Device Web Admin and CLI Management,” kindly refer to the “Securing InControl Access” section in the link below:

<https://forum.peplink.com/t/quick-and-easy-ways-to-secure-your-router/8062>

You're all set and ready to configure!

5. InControl 2 Configuration

Through InControl, Peplink’s cloud-based device management and monitoring application, this section provides an overview of the InControl settings and information specific to the Peplink Switch.

The switch will appear online in InControl 2 if it successfully connects to the InControl servers (the marker on the map will change from red to green).

The screenshot displays the InControl 2 interface for a Peplink Switch. At the top, there are four summary boxes: Online (1 device(s)), Offline (0 device(s)), Total (1 device(s)), and Clients (0 online). Below this is a 'Device List' table with one device listed.

Status	Device Name	Tags	Product Name	Uptime	Online	WAN	Usage	Clients	Firmware	Last Config Updated
Online	Switch_...	data, voip	SD Switch 24P (HW1)	an hour	13 minutes	-	0 bps	0	1.0.2 build 135	13 minutes ago

Below the table, there are options to 'Edit', 'Download as CSV', and 'Manage...'. A 'Map' section shows a Google Map with a green pin labeled 'Switch_SCF0' located near Charing Cross Station in London. The map includes street names like Pall Mall E, Strand, and A4.

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/>

5.1 InControl 2 Group Settings

Organization > Group > Settings > Device Management

The InControl Group Settings device details show tags, product name, uptime, online time, clients, and firmware for each device.

This page also allows you to configure switch-specific options through the “Actions” drop-down list.

The screenshot shows the InControl 2 interface for Group Level settings. The breadcrumb trail is Organization > Group > Settings > Device Management. The page title is "Selected 1 devices: Switch". Below the title, there are search and action controls. A table lists two devices:

Status	Device Name	Tags	Product Name	Uptime	Online	WAN	Usage	Clients	Firmware
<input type="checkbox"/>	☆ EPX		EPX	7 days	7 days	1	39.0 kbps	0	7.1.1s058 build 1086
<input checked="" type="checkbox"/>	☆ Switch		SD Switch 24-Port 850W	4 hours	4 hours	-	-	69	1.2.0 build 211

Below the table, there is an "Edit" button and a link to "Download as CSV | Update device names by CSV file".

5.2 InControl DHCP Snooping

Organization > Group > Settings > Device Management

Actions > DHCP Snooping

Prevent unauthorized DHCP servers from 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

The screenshot shows the InControl 2 interface for Group Level settings. The breadcrumb trail is Organization > Group > Settings > Device Management. The page title is "Selected 1 devices: Switch_6CF0". Below the title, there are search and action controls. The "Actions" dropdown menu is open, showing the following options:

- Move to...
- Remove...
- Firmware...
- Find My Peplink...
- Wi-Fi AP State...
- Enable DPI...
- Remote Assistance...
- DHCP Snooping** (highlighted with an orange box)
- STP Bridge Priority

The table below the dropdown shows two devices:

Tags	Product Name	Uptime	Online
	EPX	7 days	7 days
	SD Switch 24-Port 850W	5 hours	5 hours

5.3 InControl STP Bridge Priority

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

The priority field specifies the bridge priority for the root switch election.

The switch with the lowest bridge priority is elected as the root switch (Default value: 32768)

The screenshot shows the InControl2 web interface. At the top, there's a navigation bar with 'Group Level' and 'Settings'. Below that, a dashboard shows 'Selected 1 devices: Switch_6CF0'. A table lists two devices: 'EPX' (7 days uptime) and 'SD Switch 24-Port 850W' (5 hours uptime). An 'Actions' dropdown menu is open, and 'STP Bridge Priority' is highlighted with an orange box.

The dialog box is titled 'STP Bridge Priority'. It contains a 'Priority' field with a dropdown menu currently set to '32768'. Below the field is a note: 'Note: This field specifies the bridge priority for root switch election. The switch with the lowest bridge priority is elected as the root switch. Default: 32768'. At the bottom, there are 'Save' and 'Cancel' buttons.

5.4 Configuring VLANs

Organization > Group > Network Settings > VLAN Networks

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

The switch can only be managed from InControl. VLAN One will be the default VLAN and cannot be changed or removed.

VLAN Networks

Enable VLAN Networks and switch port management on all SD Switches

[Add VLAN Network](#) Search:

LAN Name	VLAN	Apply to	Action
Management Port	None	N/A	
VLAN One	1 (Default)	All SD Switch	
VLAN 51	51	All SD Switch	
VLAN 52	52	All SD Switch	

Default VLAN for SD Switches 1

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

Detailed management of VLAN network settings:

VLAN Network Settings

General

Name:

VLAN ID:

Apply to:

Note: Devices are Pepwave MAX, Peplink Balance and Switch

Settings for Peplink SD Switch

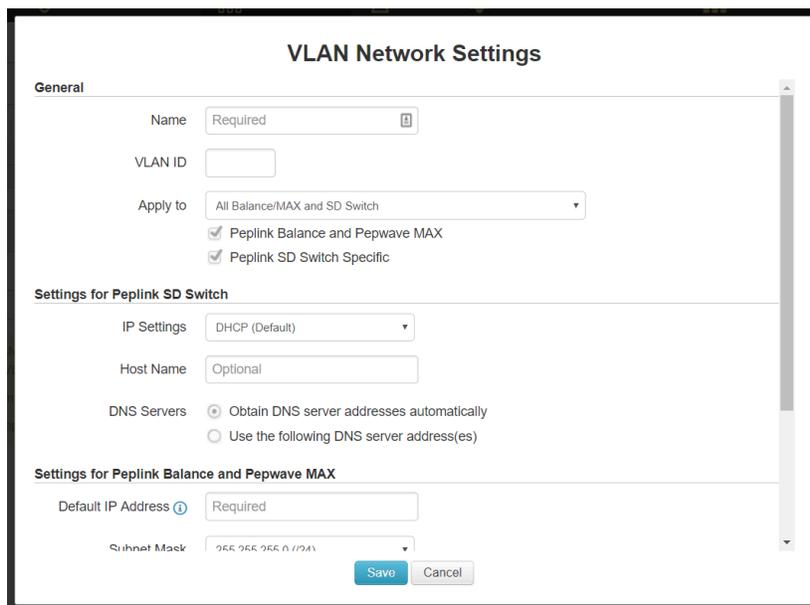
IP Settings:

Host Name:

DNS Servers: Obtain DNS server addresses automatically
 Use the following DNS server address(es)

5.4.1 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.

5.4.2 Default VLAN Settings

The Default VLAN's ID is 1 and cannot be changed. It only applies to the switch's PVID-enabled trunk ports.

Untagged frames received by those ports will be classified as a VLAN identified by ID 1. All frames from the VLAN will be untagged on egress.

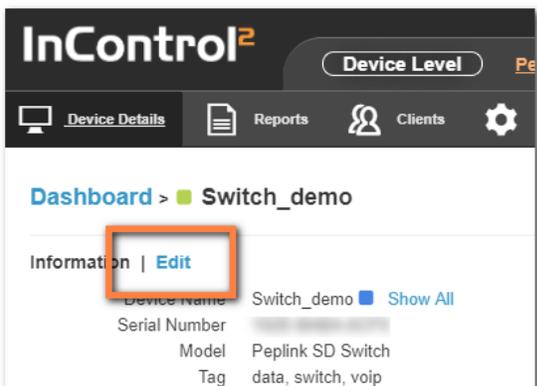
Note: The VLAN with ID 1 is always defined on the switches and cannot be changed or deleted.

5.5 InControl Device Details

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

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

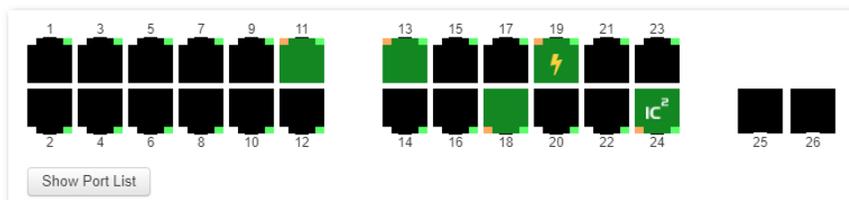
Device name, tags, location, and notes can be changed through the “Edit” link:



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.

5.5.1 Port details



The Port List shows the available switch ports and their status. When hovering over an individual port, additional information is displayed for that particular port.

Ports 1 through 24 are RJ45 ports (Ethernet).

Ports 25 and 26 are SFP+ ports (fiber).

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

5.5.2 Port Details and Configuration

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

← Back

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Information | Edit

Port 1

Name

Enable

PoE Enable

Speed

Port Type Trunk Access

VLAN

PVID

RSTP

Allow DHCP Server

Loop Protection Disabled Active Passive

Note

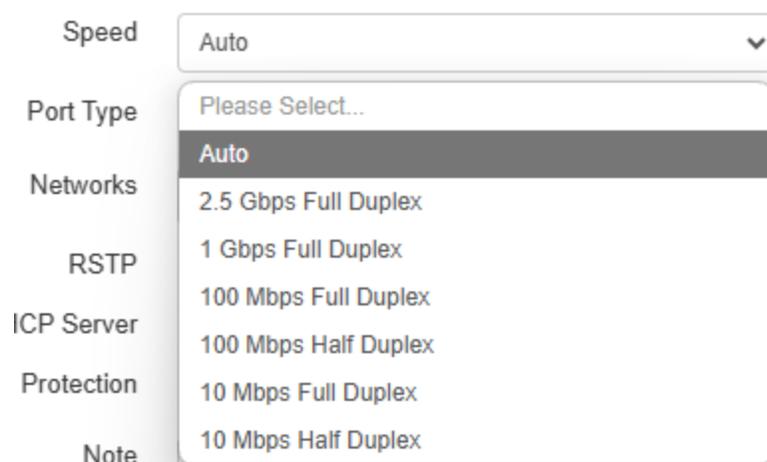
Save Cancel

Single or multiple ports can be selected and edited.

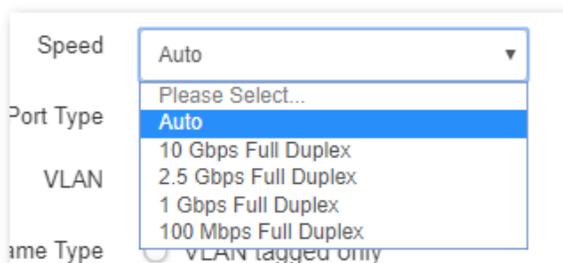
Configurable options (port 1 - 24)	
Enable / disable	Enable or disable the switch port
PoE enable / disable	Enable or disable PoE on the port
Speed [^]	Select port speeds 1Gbps, 100Mbps, or 10 Mbps half or full Duplex or 1 Gbps full Duplex.
Port Type	Trunk or Access port

VLAN	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
Loop Protection	Enable/disable loop protection.
Notes	Add additional notes
LACP	Link Aggregation

^ Configuration options on certain ports are configurable port speeds to 2.5 Gbps. May refer to the datasheet or label below switch ports.



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 the 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)

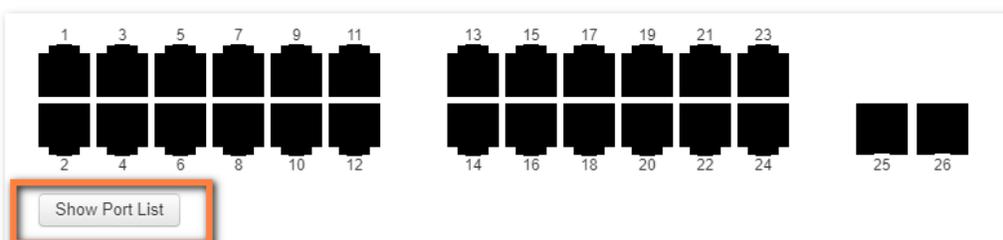
- All: accept both tagged and untagged frames; when any untagged frames or frames tagged as this VLAN enter into those trunk ports, they will be assigned to this VLAN. Any frames on this VLAN leaving from those trunk ports will be untagged

* 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”.

5.5.3 Port List

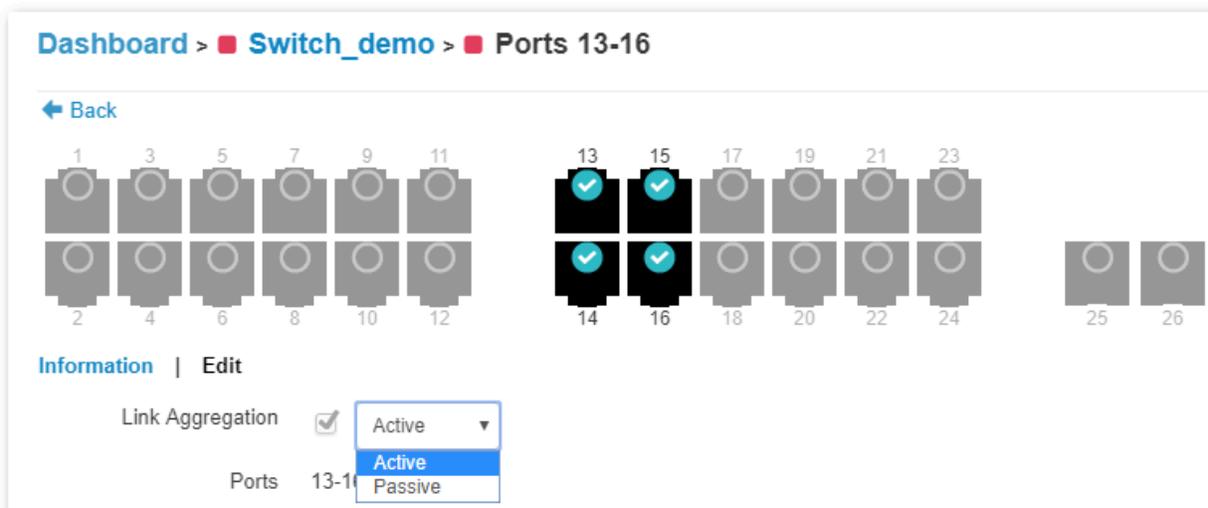
The port list can be shown or hidden by clicking on the show/hide button under the ports.



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

Port	Name	Speed	Port Type	VLAN	Traffic	RSTP	PoE
1	-	Auto	Trunk	All	-	Disabled	-
2	-	Auto	Trunk	All	-	Disabled	-
3	-	Auto	Trunk	All	-	Disabled	-
4	-	Auto	Trunk	All	-	Disabled	-
5	-	Auto	Trunk	All	-	Disabled	-
6	-	Auto	Trunk	All	-	Disabled	-
7	-	Auto	Trunk	All	-	Disabled	-
8	-	Auto	Trunk	All	-	Disabled	-

5.5.4 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 number of interfaces per LAG is 24.

The advantages of link aggregation, in contrast with connections using an individual port, include:

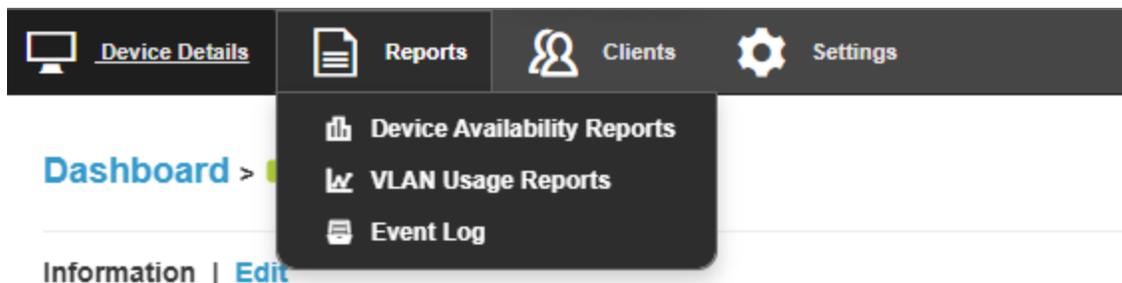
- higher throughput speed compared to an individual port
- higher accessibility

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 are shown in a graph on the same page.

5.6 InControl Reports



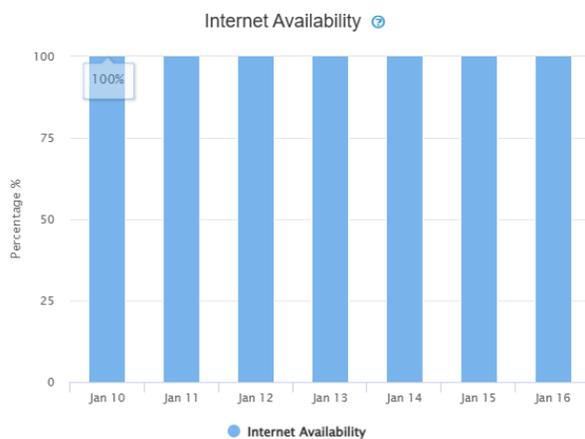
Device Availability Reports

Internet Availability - "Total amount of InControl online time of the device in the day" / "Total uptime of the device in the day"

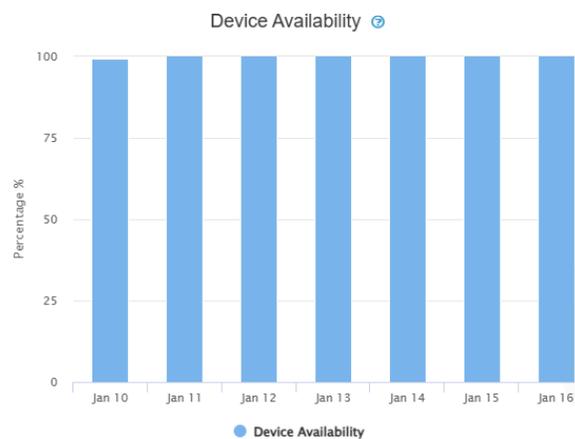
Device Availability - "Total uptime of the device in the day" / "Total amount of time of the day"

Last 7 Days

Summary

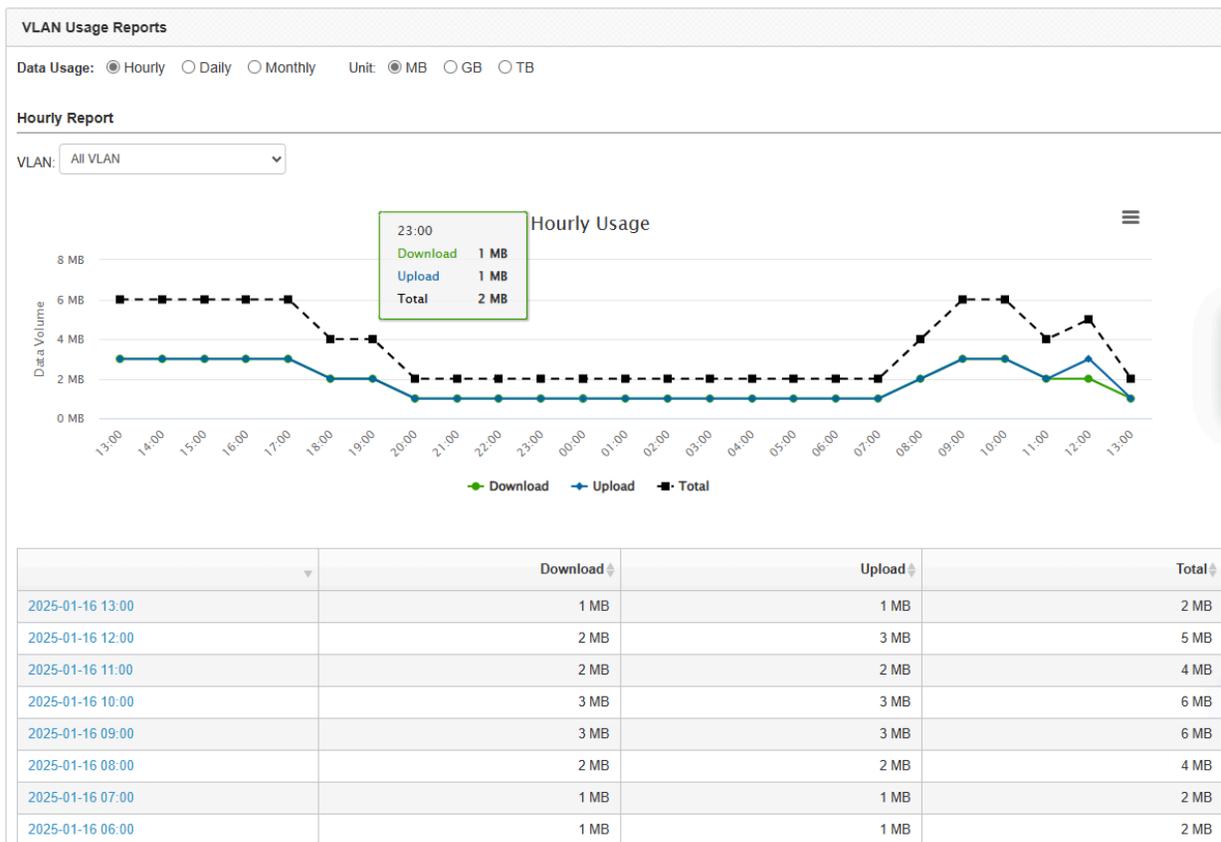


[Download as CSV](#)



[Download as CSV](#)

VLAN Usage Report



Event log

Search & Filter

Search:

From Optional Optional to now now

System SpeedFusion WAN LAN WLAN Portal IPsec PPTP L2TP IP Conflict MAC Conflict HA DDNS
 AirProbe NFC DHCP Switch Geofence AP Controller

Select [All | None | Default]

[Search](#)

[Log Archive Download](#)

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

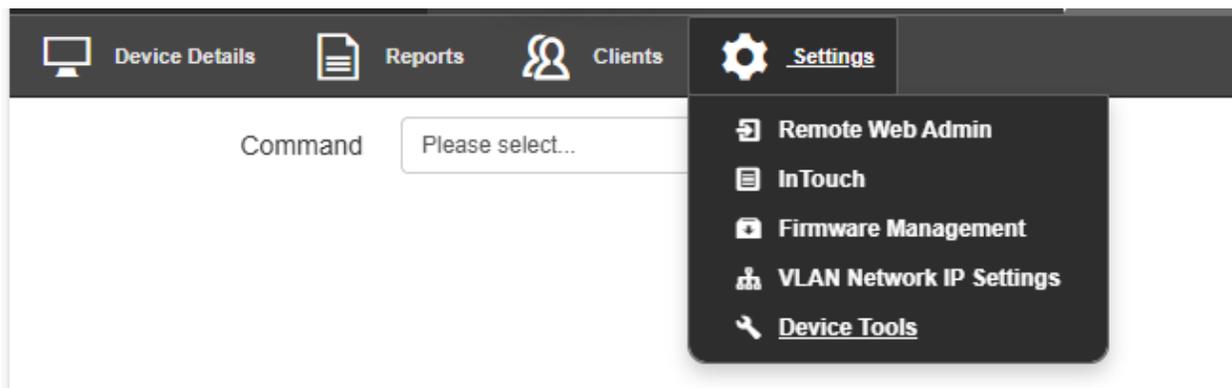
5.7 InControl Clients

The screenshot shows the 'Clients' tab in the Peplink management interface. At the top, there are navigation tabs: Device Details, Reports, Clients (selected), Settings, and Switch. Below the tabs, there is a 'Refresh' button set to 'On'. A search bar is present with the text 'Showing 1 to 2 of 2 entries'. Below the search bar is a table with the following data:

Type	Name	IP Address	Switch Port	VLAN ID	Traffic
	[blurred]	10.22.1.177	13	1	0 kbps
	[blurred]	10.22.1.172	18	1	0 kbps

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

5.8 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.

InTouch Settings

IP-based

InTouch Device Name	Note	URL on LAN	Group Name	Accessible by Viewers	Action
test24SW	-	ssh://192.168.52.63:8822	-	No	

[Add](#)

[Save Changes](#) [Cancel](#)

Settings > InTouch

InTouch is Peplink’s zero-touch remote network management solution, leveraging InControl 2 and a SpeedFusion Connect (formerly known as SpeedFusion Cloud) data plan. This service extends a network administrator’s ability to reach any device UI backed by a Peplink/Pepwave router. To configure InTouch, all you need is a valid InControl 2 subscription, a SpeedFusion Connect data plan, and a Peplink/Pepwave router (which requires the latest 8.2.0 firmware).

To watch a demonstration and read the FAQ, visit <https://www.peplink.com/enterprise-solutions/intouch/>

Settings > Firmware Management

Device Details
 Reports
 Clients
 Settings

Firmware Management

Device MY-Demo-SW8-01

Product Peplink SD Switch Rugged, 8-Port

Hardware Revision 1

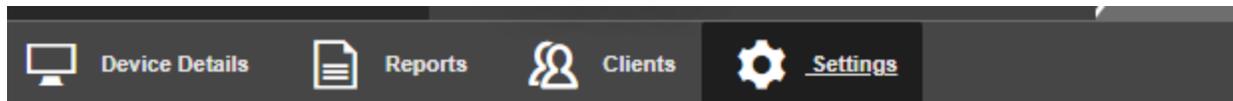
Existing Firmware 1.3.0 build 510

Applying Firmware Follow group policy
[Group policy](#)

Update Schedule Immediately Scheduled

[Save Changes](#) [Cancel](#)

Settings > Device Tools



Command

- Please select...
- Remote Assistance
- Reboot
- Reset to Factory Defaults

Command	
Remote Assistance	Turn On/Off of Remote Assistance
Reboot	Apply and reboot the device.
Reset to Factory Defaults	Apply and factory default the device.

6. Web Admin Configuration

6.1 Getting Started

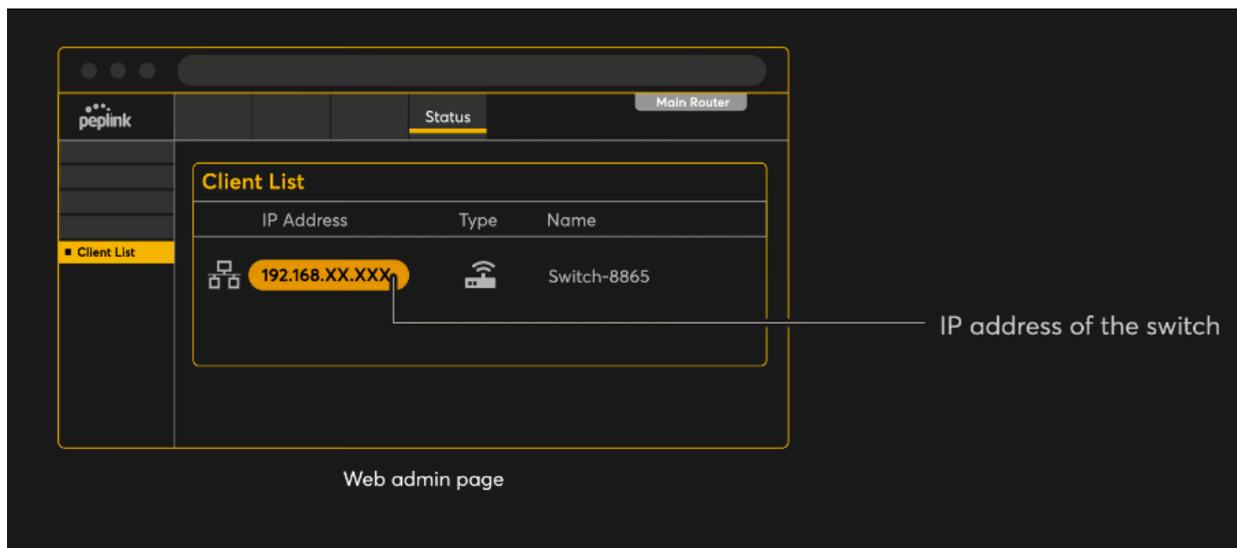
To access the switch's web interface without DHCP uplink connection :

1. Power On the switch without an uplink connection.
2. Connect your laptop/PC to any of the switch ports.
3. Make sure your laptop/PC ethernet connection is configured using 192.168.1.0/24 network.
4. Open a web browser and enter the default Management IP address <http://192.168.1.254> or <https://192.168.1.254> to access the switch's web admin interface.

Caution: The management IP address will no longer be 192.168.1.254 if the uplink connection is connected and the switch external access is obtained a DHCP IP from the network.

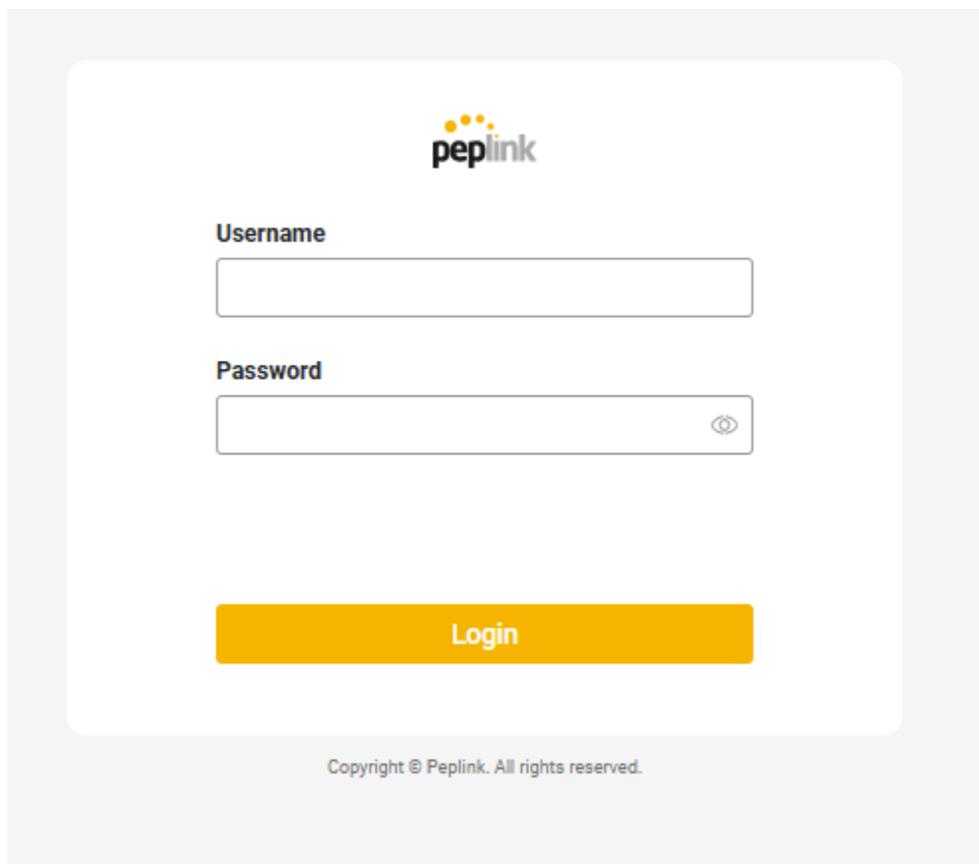
To access the switch's web interface with DHCP uplink connection :

1. Connect the switch to your network and power it on.
2. Open a web browser on a device within the same network.
3. Check the client list on your main router's web admin to determine the switch's IP address in the network. If a Peplink router is used, this is the interface where you can check the client list.



4. Enter the IP address of the switch's web admin interface (http/https). You can obtain the IP address from the main router client list.

Log in with your credentials to access the interface.

The image shows a screenshot of the Peplink web administration interface's login page. At the top center is the Peplink logo, which consists of the word "peplink" in a lowercase, sans-serif font with three yellow dots above the "i". Below the logo are two input fields: the first is labeled "Username" and the second is labeled "Password". The password field has a small eye icon on its right side to toggle visibility. Below these fields is a prominent yellow button with the word "Login" in white text. At the bottom of the page, there is a small copyright notice: "Copyright © Peplink. All rights reserved."

Login with the default credentials:

Username: admin

Password: admin

This is the default admin user login of the Peplink Switch. The admin and read-only user password can be changed at **System>Admin Security** on inControl 2.

6.2 Device Connection Section

This section provides a summary of the settings and system information displayed on the **Device Connection** page.

6.2.1 External Access

- **Mode:** Shows the current network connection mode.
- **Connection Type:** Displays the type of connection the device is using, such as DHCP or Static IP.
- **VLAN ID:** Indicates the VLAN (Virtual Local Area Network) the device is assigned to.
- **Port:** Identifies the network port being used for the uplink connection.
- **IP Address:** Displays the IP address assigned to the device.
- **Subnet Mask:** Specifies the subnet configuration of the device, defining the network it belongs to.
- **Default Gateway:** Displays the gateway address used to route traffic outside the local network.
- **Uptime:** Shows how long the connection has been active since the last restart.
- **DNS Servers:** Lists the DNS servers the device is using to resolve domain names.

6.2.2 System Information

- **Device Name:** Displays the name assigned to the device for identification on the network.
- **Model:** Identifies the model of the device.
- **Product Code:** Displays the product code or SKU for the device.
- **Hardware Revision:** Indicates the hardware version of the device.
- **Serial Number:** Shows the unique serial number of the device.
- **Firmware Version:** Displays the current firmware version installed on the device.
- **Uptime:** Indicates how long the device has been running since the last reboot.
- **System Time:** Displays the current time configured on the device.
- **Diagnostic Report:** Provides an option to download a report for diagnostics, which can be used for troubleshooting.
- **Remote Assistance:** Allows enabling remote access to the device for support purposes. This setting specifies the duration for which remote access will remain active.

6.2.3 MAC Address

- **Switch MAC Address:** Displays the device's unique hardware address.

6.3 Uplink Configuration Section

This section explains how to configure the Uplink Settings for the device.

6.3.1 External Access Settings

- **Mode:**
 - **Auto:** The device scans through all VLAN IDs (1-4094) and attempts to establish a connection using DHCP automatically. This mode is recommended for dynamic environments where VLAN and IP assignments are managed automatically.

The screenshot shows the 'Uplink Configuration' tab selected in the navigation bar. The 'External Access Settings' section has 'Mode' set to 'Auto' (indicated by a selected radio button). A 'Save' button is visible in the bottom right corner.

- **Custom:** Allows you to manually define the VLAN ID and specify the connection method (e.g., DHCP or Static IP). This mode is suitable for networks requiring specific configurations for connectivity.

The screenshot shows the 'Uplink Configuration' tab selected. The 'External Access Settings' section has 'Mode' set to 'Custom' (indicated by a selected radio button). The 'Management VLAN' field contains the value '1'. The 'Connection Method' dropdown is set to 'DHCP'. The 'DNS Servers' section has a checkbox for 'Use the following DNS server address(es)' which is unchecked. Below it, 'DNS Server 1' is set to '192.168.50.1' and 'DNS Server 2' is empty. A 'Save' button is visible in the bottom right corner.

Custom Mode Configuration

When **Custom Mode** is selected under the **External Access Settings**, you can manually configure the uplink settings according to specific network requirements. Below are the configurable options:

1. Management VLAN

- Enter the VLAN ID that will be used for the device's management traffic.
- This allows the device to operate within a specific VLAN in your network setup.

2. Connection Method

- Select the method the device will use to obtain an IP address. The options include:
 - **DHCP:** Automatically acquire an IP address from a DHCP server in the specified VLAN.
 - **Static IP:** Manually set the IP address, subnet mask, and gateway. This is used when the network requires fixed addressing.

3. DNS Servers

- If custom DNS settings are required, check the box to enable the **Use the following DNS server address(es)** option.
- Enter the preferred and alternate DNS server addresses:
 - **DNS Server 1:** Specify the primary DNS server for name resolution.
 - **DNS Server 2:** Optionally, specify a secondary DNS server as a fallback.

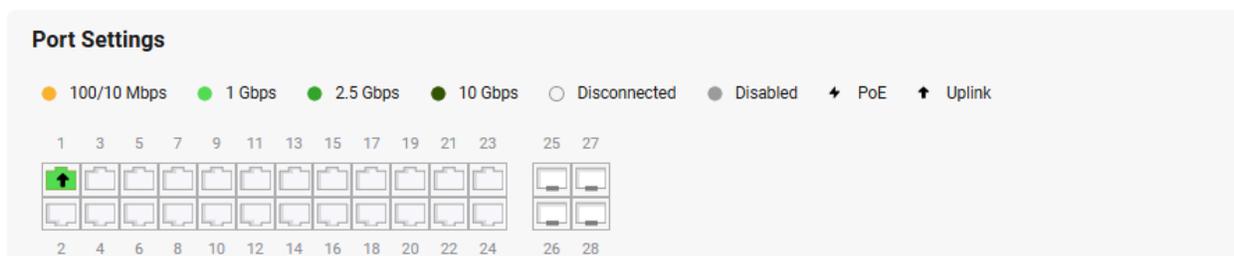
Caution: Before changing the Management VLAN, ensure that the switch port trunk/access port for the VLAN is configured first to avoid losing access to the switch via local access or IC2 access. A factory reset is required if the wrong Management VLAN is configured.

6.4 Switch Port Status and Configurations

This section provides an overview and customization options for the switch ports. It allows you to monitor the status and configure each port to meet specific network requirements.

6.4.1 Port Settings Overview

The interface displays a visual representation of the ports and their statuses, along with a detailed table for configuration.



Port Indicators

- **100/10 Mbps (Yellow):** Indicates the port is connected and operating at 10 or 100 Mbps.
- **1 Gbps (Light Green):** Indicates the port is connected and operating at 1 Gbps.
- **2.5 Gbps (Green):** Indicates the port is connected and operating at 2.5 Gbps.
- **10 Gbps (Dark Green):** Indicates the port is connected and operating at 10 Gbps.
- **Disconnected (Gray):** Indicates the port is not connected to a device.
- **Disabled (Dark Gray):** Indicates the port has been manually disabled.
- **PoE (Power over Ethernet):** Displays whether the port supports PoE, providing power to connected devices like IP cameras or access points.
- **Uplink:** Highlights if the port is used as an uplink to connect to other network infrastructure.

Port Configuration Table

The table provides the following configuration options for each port:

ID	Name	VLAN Networks	PVID	PoE	RSTP	Enable
ID 1	Port 1	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 2	Port 2	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 3	Port 3	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 4	Port 4	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 5	Port 5	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 6	Port 6	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 7	Port 7	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 8	Port 8	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 9	Port 9	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>
ID 10	Port 10	Untagged: default (1)	default (1)		✓	<input checked="" type="checkbox"/>

- **ID:** Displays the unique identifier for the port.
- **Name:** The user-defined name of the port.
- **VLAN Networks:** Lists the VLAN configurations associated with the port (tagged or untagged).
- **PVID (Port VLAN ID):** Displays the VLAN ID associated with untagged traffic on the port.
- **PoE:** Indicates if PoE is enabled on the port. An icon signifies PoE capability.
- **RSTP (Rapid Spanning Tree Protocol):** Shows whether RSTP is enabled to prevent loops in the network.
- **Enable:** Toggles the port on or off.

6.5 Firmware Upgrade

This section allows you to manage the device firmware, ensuring it is up-to-date for optimal performance and security. It includes options for checking updates, manual upgrades, and rebooting the device with a selected firmware.

6.5.1 Check for Updates

- **Current Firmware Version:** Displays the currently installed firmware version.
- **Update:** Click the **Check for Updates** button to automatically check for the latest firmware version available online. If an update is available, follow the prompts to install it.

6.5.2 Manual Upgrade

- **Firmware Image:** If you have downloaded a firmware file manually, click **Choose File** to upload it. Once uploaded, the device will apply the new firmware.

6.5.3 Reboot System

- **Select Firmware:** If the device has multiple firmware versions installed, you can choose which version to use during the next boot. Options include:
 - **Firmware 1:** Select this to boot into an alternate firmware image.
 - **Firmware 2 (Running):** The firmware is currently in use.
- **Reboot Button:** Click **Reboot** to restart the device and apply the selected firmware.