Wi-Tek Industrial Flat-type Cloud Easy Smart Switch WEB User Manual

www.wireless-tek.com

This manual applies to the following switch models

model	Interface
WI-PCES310GF-F	8-port PoE and 2-port SFP

Copyright notice

Disclaimers

Preface

Reader object

This document is suitable for the following people

- Network Engineer
- Technical Promotion Personnel
- Network Administrator

Technical Support

- Website:

Agreement in this book

1. Command line format Convention

The meaning of the command line format is as follows:

Bold: the command line keywords (the parts that must be input as they remain unchanged in the command) are expressed in bold font.

Italics: command line parameters (parts of the command that must be replaced by actual values) are expressed in italics.

[]: indicates the part enclosed by [], which is optional during command configuration.

{ x | y | ... }: Indicates that one of two or more options is selected.

[x | y | ...]: Indicates to select one or none of two or more options.

//: a line starting with a double slash is represented as a comment line.

2. Description

- Some port types illustrated in this manual may be inconsistent with the actual situation. In actual operation, it is necessary to configure according to the port types supported by each product.
- The display information illustrated in this manual may contain the contents of other product series (such as product model, description, etc.), and the specific display information shall be subject to the actual equipment information.

Content

Web Smart Function Configuration

1 Overview

Web Smart refers to the device web management system, that is, the web management system that manages or configures the device, and manages the device by accessing Web Smart using a browser (such as Chrome).

Web management includes two parts: Web server and Web client. The Web server is integrated on the device to receive and process the requests sent by the client and return the processing results to the client. The Web client usually refers to the browser, such as Chrome, IE and FF.

2 Configuration Guide

This section provides an introduction to the web-based configuration utility, and covers the following topics:

- Powering on the device
- Connecting to the network
- Starting the web-based configuration utility

2.1 Power

Connecting to Power

Power down and disconnect the power cord before servicing or wiring a switch.

Do not disconnect modules or cabling unless the power is first switched off. The device only supports the voltage outlined in the type plate. Do not use any other power components except those specifically designated for the switch.

Disconnect the power cord before installation or cable wiring.

Connect the AC power connector on the back panel of the switch to the external power

source with the included power cord, and check the power LED is on.

2.2 Connecting to the Network

To connect the switch to the network:

1. Connect an Ethernet cable to the Ethernet port of a computer
2. Connect the other end of the Ethernet cable to one of the numbered Ethernet ports of the switch. The LED of the port lights if the device connected is active.
3. Repeat Step 1 and Step 2 for each device to connect to the switch.

We strongly recommend using CAT-5E or better cable to connect network devices. When connecting network devices, do not exceed the maximum cabling distance of 100 meters (328 feet). It can take up to one minute for attached devices or the LAN to be operational after it is connected. This is normal behavior.

Connect the switch to end nodes using a standard Cat 5/5e Ethernet cable (UTP/STP) to connect the switch to end nodes as shown in the illustration below.
Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.

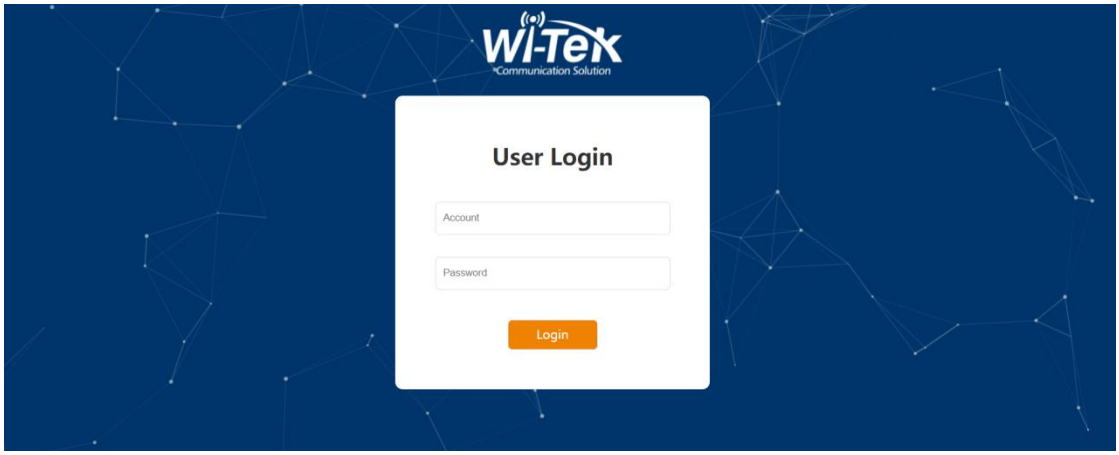
2.3 Starting the Web-based Configuration Utility

This section describes how to navigate the web-based switch configuration utility. Be sure to disable any pop-up blocker.

Launching the Configuration Utility
To open the web-based configuration utility:

1. Open a Web browser.
2. Enter the IP address of the device you are configuring in the address bar on the browser (factory default IP address is 192.168.0.1) and then press Enter.

After a successful connection, the login window displays.



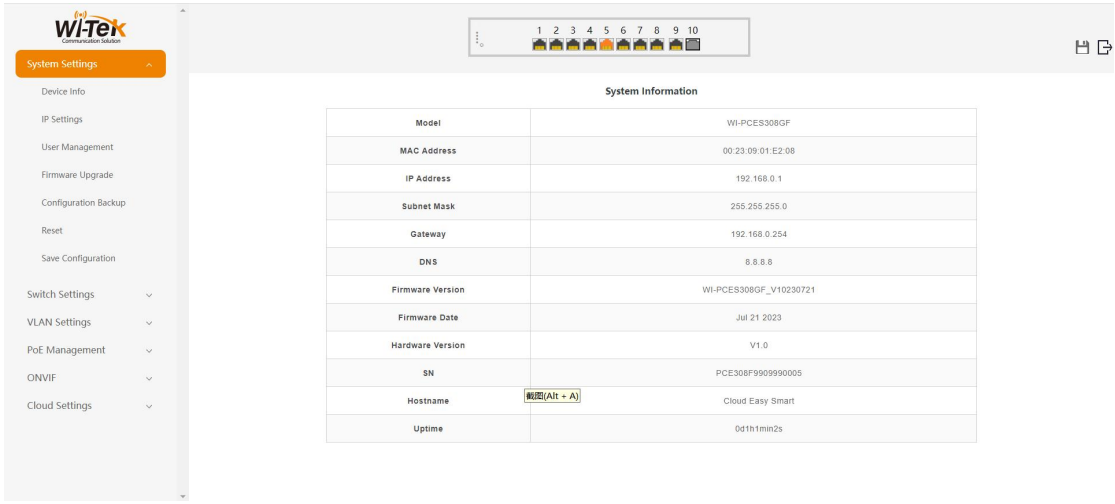
2.5 Logging In

The default username is admin and the default password is admin.

To log in to the device configuration utility:

1. Enter the default user ID (admin) and the default password (admin).
2. If this is the first time that you logged on with the default user ID (admin) and the default password (admin) it is recommended that you change your password immediately.

When the login attempt is successful, the System Information window displays.



If you entered an incorrect username or password, an error message appears and the Login page remains displayed on the window.

By default, the application logs out after five minutes of inactivity.

To logout, click Logout in the top right corner of any page. The system logs out of the device.

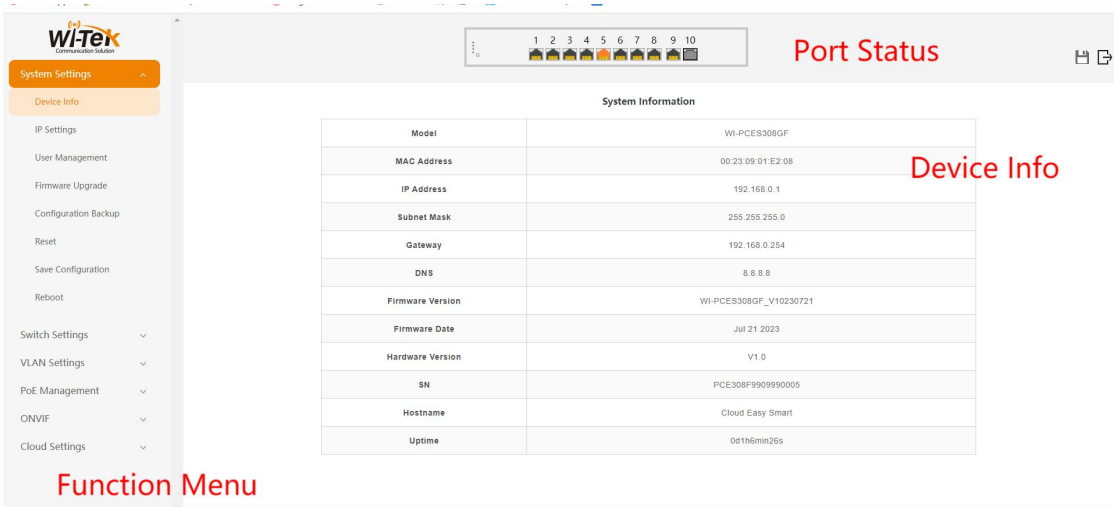
When a timeout occurs or you intentionally log out of the system, a message appears and

the Login page appears, with a message indicating the logged-out state. After you log in, the application returns to the initial page.

2.6Web-based Switch Configuration

The Web smart switch software provides Layer 2 functionality for switches in your networks. This chapter describes how to use the web-based management interface (Web UI) to configure the switch's features.

For the purposes of this manual, the user interface is separated into three sections, as shown in the following figure:



As you can see, the page is divided into two parts:

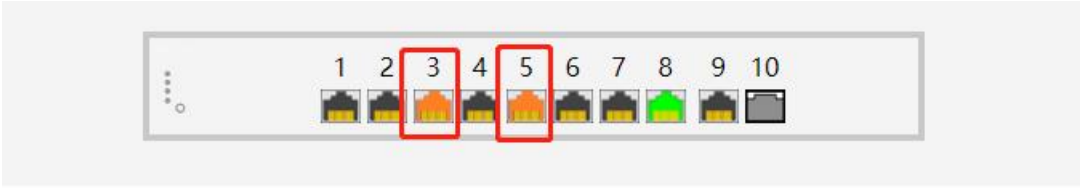
The left part is the menu bar, which displays the links of all configuration functions of the equipment, such as monitoring management and switch configuration module.

The right part is the content area, which is divided into upper and lower parts. The upper side is the port status bar, 《Save》 and 《**Logout**》 button, and the lower side is the page content presentation and configuration area.

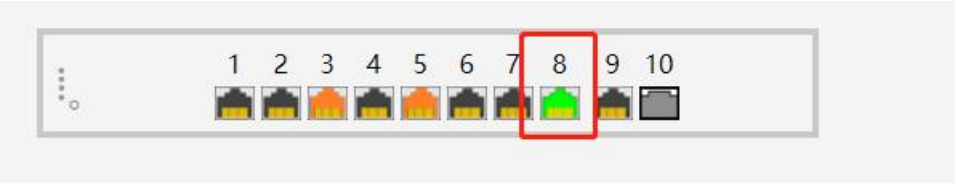
Port Status Bar:

Move the mouse to the port to display the basic status of the port

When the port is connected with 10/100M speed, the port color is yellow , like in the following picture:



When the port is connected with 1000M speed, the port color is green, like in following picture:



3 Web Smart Configuration

3.1 System Settings

3.1.1 Device Info

The device info interface displays the basic information of the device.

System Information

Model	WI-PCES308GF
MAC Address	00:23:09:01:E2:08
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Gateway	192.168.0.254
DNS	8.8.8.8
Firmware Version	WI-PCES308GF_V10230721
Firmware Date	Jul 21 2023
Hardware Version	V1.0
SN	PCE308F9909990005
Hostname	Cloud Easy Smart
Uptime	0d1h29min34s

3.1.2 IP Settings

Configure device management IP (default static IP: 192.168.0.1)

IP Address Setting

DHCP Client	Enable
IP Address	192.168.0.1
Submask	255.255.255.0
Gateway	192.168.0.254
Auto Obtain DNS	Enable
DNS	8.8.8.8

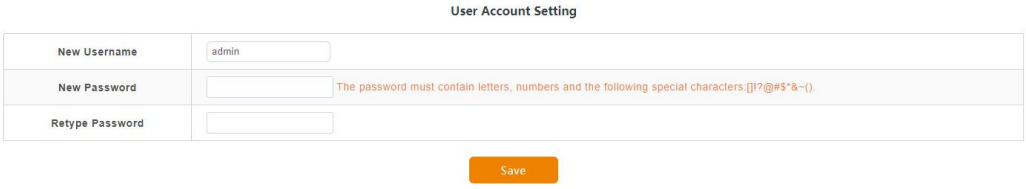
Save

Tips:

1. When configuring IP, the device will be disconnected briefly. If automatic IP acquisition is enabled, you need to obtain the configuration IP from the uplink device or web management through device management IP: 10.XX.XX.XX(XX.XX.XX is the last three digits of the MAC address of the current device).

3.1.3 User Management

Configure the user account information,including username and password



Tips:

1. The password must contain 6-16 characters and contain only letters, numbers and the following special characters: <=>[]!@#$*().

3.1.4 Firmware Upgrade

System firmware upgrade can be divided into **Local upgrade** and **Online upgrade**:

1. Local upgrade

Click《**Select File**》and select the software package you want to upgrade in the pop-up file selection box (Decompress the package and select the bin file for upgrade.).

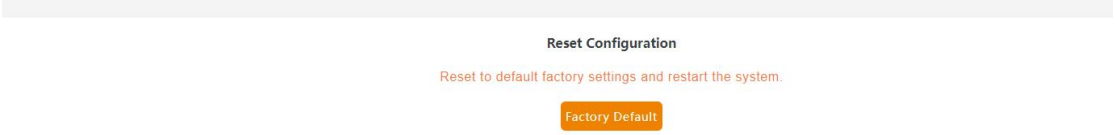
3.1.5 Configuration Backup

Click《**Backup**》to save the current configure file of the switch.

Click《**Select file**》and select the software package you want to upgrade in the pop-up file selection box. Click《**Restore**》to set up the swicth configuration.

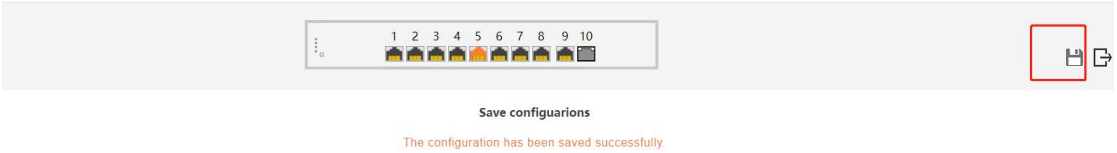
3.1.6 Reset

Click《**Fatcory Default**》to reset the equipment to factory default settings.



3.1.7 Save Configuration

Click the menu or the <Save> icon on the left upper side to save current configuration of the switch.



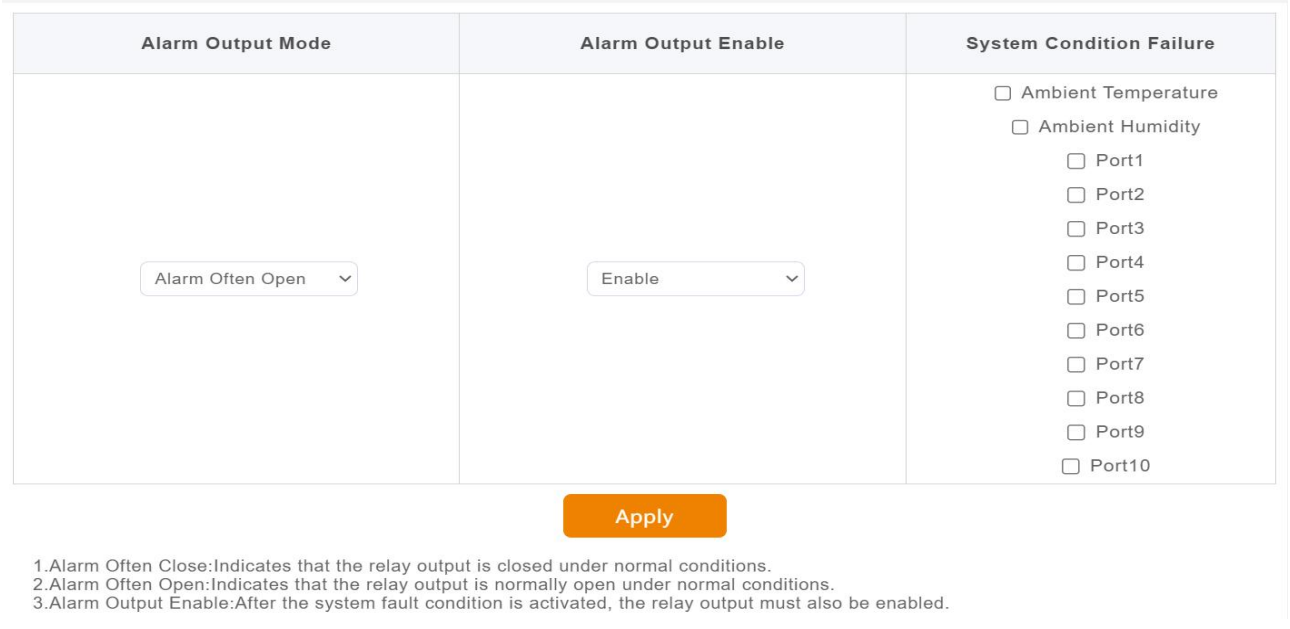
3.1.8 Reboot

Click《**Reboot**》to restart the equipment.

3.1.9 Temperature Sensor Data

On this page, the user can configure and monitor the environment temperature and humidity, set up the upper and lower limitation for monitoring

Click 《Alarm Temperature》>《Alarm Temperature Setting》, shown as following:



Configuration Description：

Parameters	Description
Ambient Temperature Lower	To set up the temperature lower limitation
Ambient Temperature Upper	To set up the temperature upper limitation
Ambient Humidity Lower	To set up the humidity lower limitation
Ambient Humidity Upper	To set up the humidity Upper limitation
Alarm Output Mode	Select the alarm output mode as following: 1. Alarm Often Close:Indicates that the relay output is closed under normal conditions. 2. 2.Alarm Often Open:Indicates that the relay output is normally open under normal conditions.
Alarm Output Enable	Enable/ Disable the alarm output function.After the system fault condition is activated, the relay output must also be enabled.
System Condition Failure	Select to configure the alarm information

Click “Apply”for saving the changes

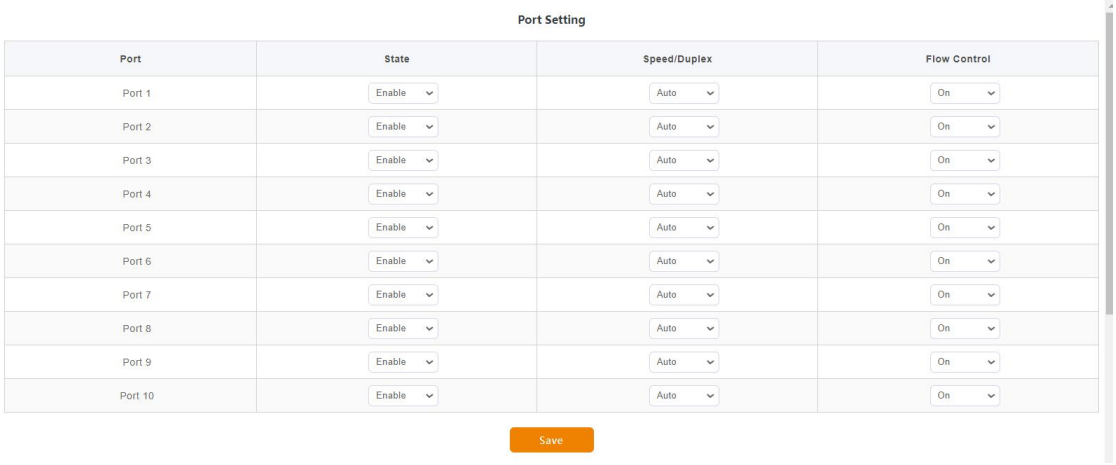
3.2 Switch Settings

3.2.1 Port Settings

Port configuration can batch configure the status, speed, duplex, flow control of ports. The page is divided into two parts:

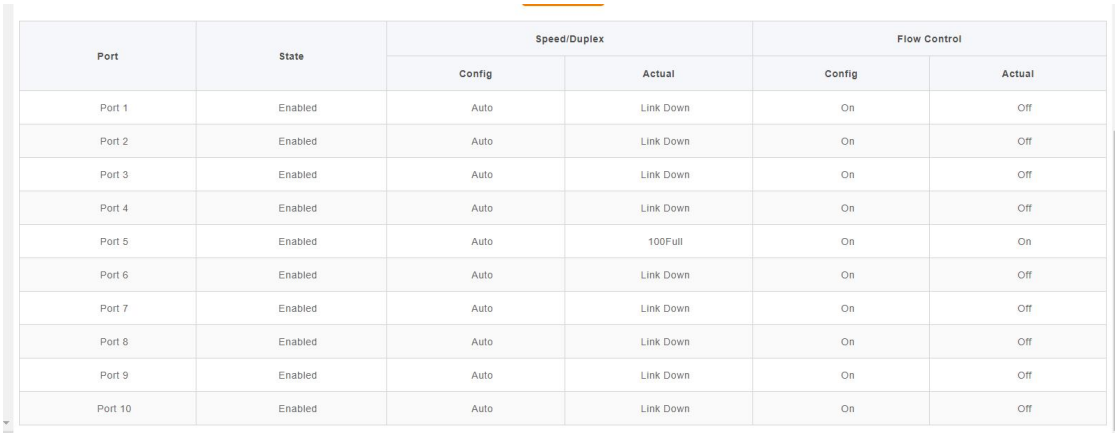
Configuration part:

Select the port to be configured, then select each attribute to be configured, and click **《Save》** to distribute the configuration.



Display part:

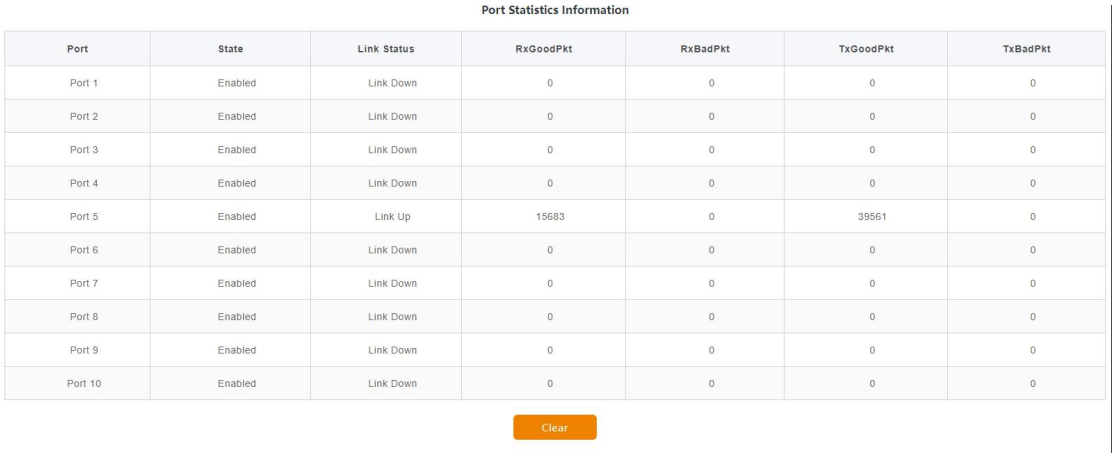
Displays the configuration attributes and actual effective attributes of each port of the devices



Port	State	Speed/Duplex		Flow Control	
		Config	Actual	Config	Actual
Port 1	Enabled	Auto	Link Down	On	Off
Port 2	Enabled	Auto	Link Down	On	Off
Port 3	Enabled	Auto	Link Down	On	Off
Port 4	Enabled	Auto	Link Down	On	Off
Port 5	Enabled	Auto	100Full	On	On
Port 6	Enabled	Auto	Link Down	On	Off
Port 7	Enabled	Auto	Link Down	On	Off
Port 8	Enabled	Auto	Link Down	On	Off
Port 9	Enabled	Auto	Link Down	On	Off
Port 10	Enabled	Auto	Link Down	On	Off

3.2.2 Port Statistics

The Port Statistics page displays the data statistics and status of the device port, such as the port sending and receiving rate, sending and receiving packets, etc.



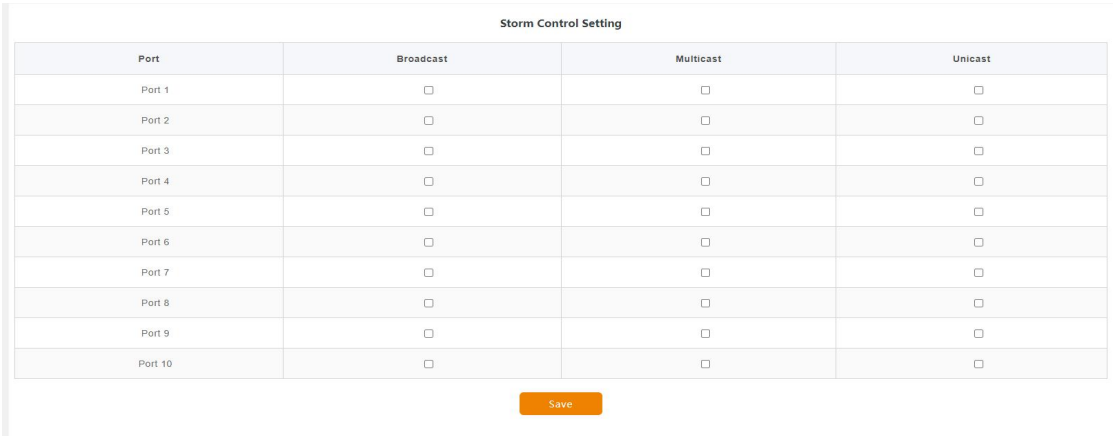
Port Statistics Information

Port	State	Link Status	RxGoodPkt	RxBadPkt	TxGoodPkt	TxBadPkt
Port 1	Enabled	Link Down	0	0	0	0
Port 2	Enabled	Link Down	0	0	0	0
Port 3	Enabled	Link Down	0	0	0	0
Port 4	Enabled	Link Down	0	0	0	0
Port 5	Enabled	Link Up	15683	0	39561	0
Port 6	Enabled	Link Down	0	0	0	0
Port 7	Enabled	Link Down	0	0	0	0
Port 8	Enabled	Link Down	0	0	0	0
Port 9	Enabled	Link Down	0	0	0	0
Port 10	Enabled	Link Down	0	0	0	0

Clear

3.2.3 Storm Control

Select the port number,configured storm control type(Broadcast, Multicast, Unicast), and click《**Save**》 to configure storm control.



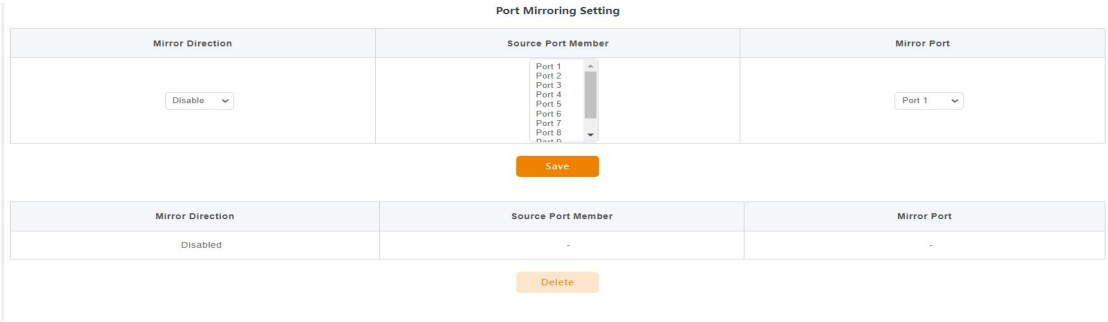
Storm Control Setting

Port	Broadcast	Multicast	Unicast
Port 1	☐	☐	☐
Port 2	☐	☐	☐
Port 3	☐	☐	☐
Port 4	☐	☐	☐
Port 5	☐	☐	☐
Port 6	☐	☐	☐
Port 7	☐	☐	☐
Port 8	☐	☐	☐
Port 9	☐	☐	☐
Port 10	☐	☐	☐

Save

3.2.4 Port Mirroring

The input / output messages of one or more source image ports are forwarded to the destination image port to monitor the network.



Port Mirroring Setting

Mirror Direction	Source Port Member	Mirror Port
Disable	Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8	Port 1

Save

Mirror Direction	Source Port Member	Mirror Port
Disabled	-	-

Delete

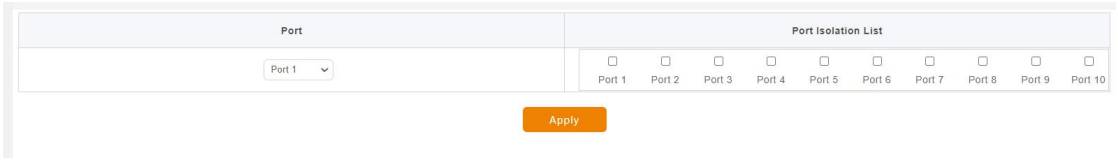
Tips:

1. Source port and destination port cannot be the same
2. Another mirror group is using the destination port
3. Supports 4 Session IDs

3.2.5 Port Isolation

The port isolation is divided into two parts: configuration part and display part

Configure isolation port group

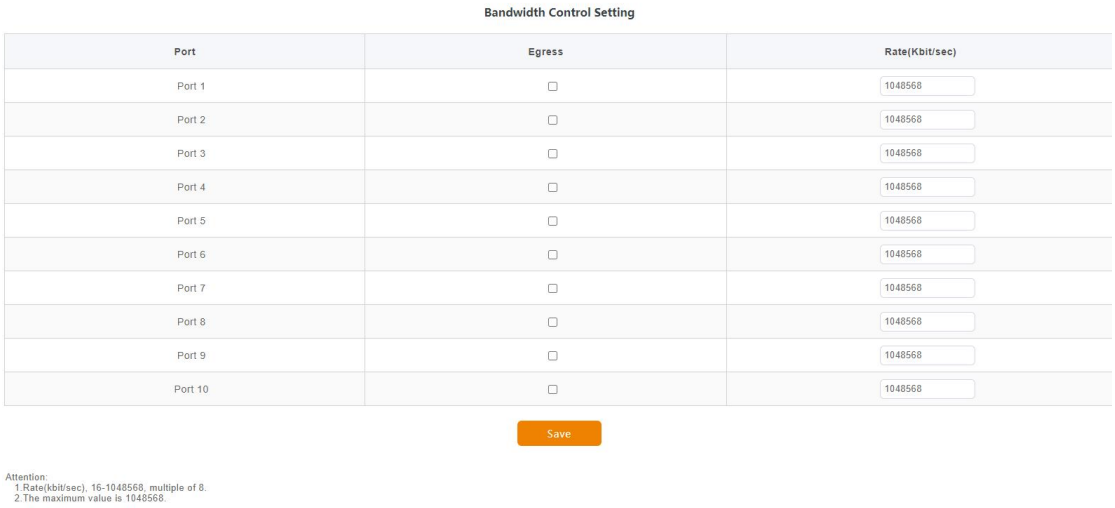


Display the port isolation list

Port	Port Isolation List
Port 1	-
Port 2	-
Port 3	-
Port 4	-
Port 5	-
Port 6	-
Port 7	-
Port 8	-
Port 9	-
Port 10	-

3.2.6 Port Bandwidth Control

Select the port for configuration Egress, enter the rate and click save to configure the bandwidth control settings



Tips:

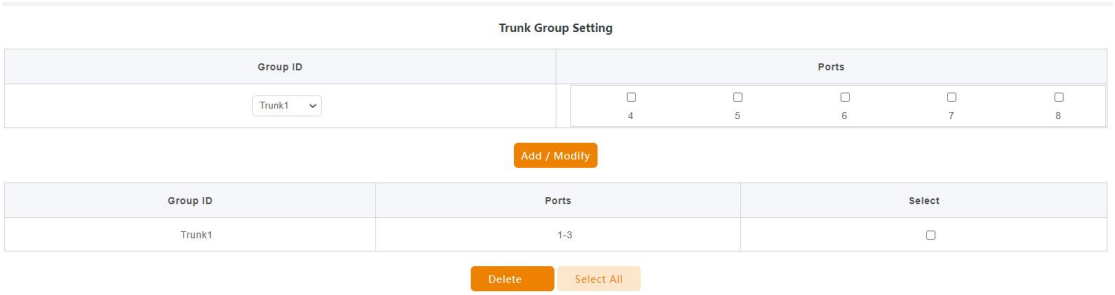
1. Rate(kbit/sec), 16-1048568, multiple of 8.
2. The maximum value is 1048568.

3.2.7 Link Aggregation

The link aggregation port can add a trunk group or delect the trunk group

Select the trunk group number and select the ports, click <Add/Modify> to add a trunk group or modify the group members.

Select the trunk group and click <delete> the trunk group.

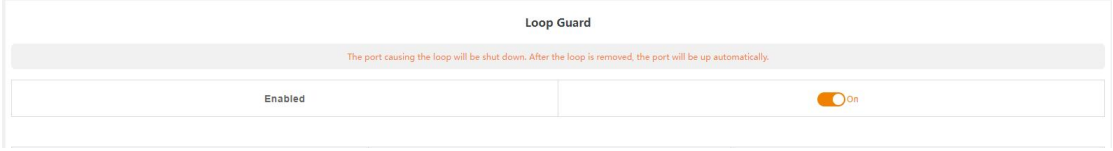


Tips:

1. Maximum 2 trunk group can be set up for WI-PCES308GF, 1 for WI-PCES306GF.
2. In each trunk group maximum 4 member ports.
3. The mirroring port cannot be added in the trunk group.
4. Trunk 1 can only be configured with 1-4 ports.
5. Trunk 2 can only be configured with 5-8 ports.

3.2.8 Loop Guard

Configure enable loop guard.



Tips:

The port causing the loop will be shutdown. After the loop is removed, the port will be up automatically. （Default is enable）。

3.2.9 Search MAC

Search the MAC table learned by the device

Tips:

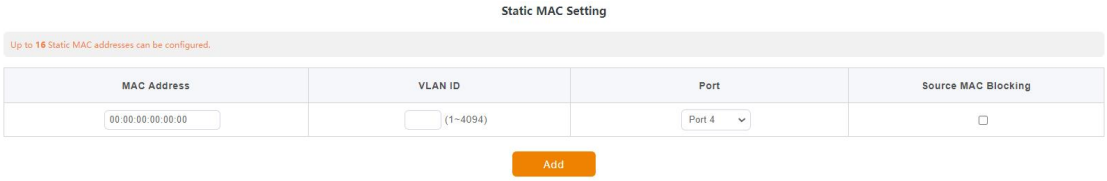
1. The inquiry waiting process will interrupt the communication with the equipment

3.2.10 Static MAC

The static MAC configuration is divided into two parts.

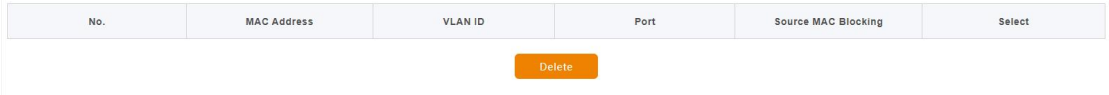
Static MAC add:

Enter the legitimate MAC address, VLAN ID, and select the configured port number. Click 《**Add**》 to add static MAC.



Static MAC deletion and display:

After adding a legal static Mac, the corresponding data will be displayed; Check the static Mac and click《**Delete**》. After the configuration is successful, the MAC address, VLAN and corresponding port will be unbound.



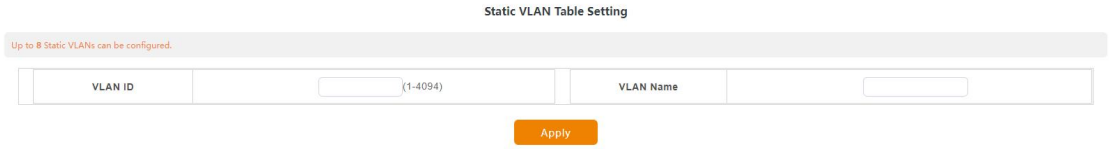
3.3 VLAN Settings

Add or delete device VLAN members and port VLAN configuration

3.3.1 VLAN Member

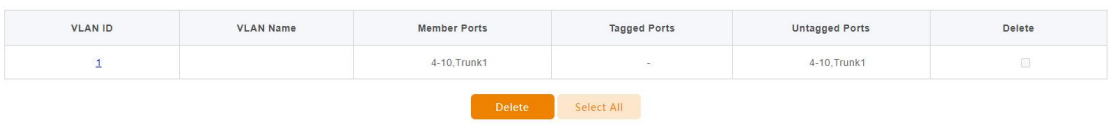
Configuration part:

Enter a valid VLAN ID and VLAN name, click 《**Apply**》to configure a new VLAN member;



Display part:

Displays the VLAN members newly added by the device, Select VLAN members in the VLAN member list and click《**Delete**》to delete VLAN members in batch



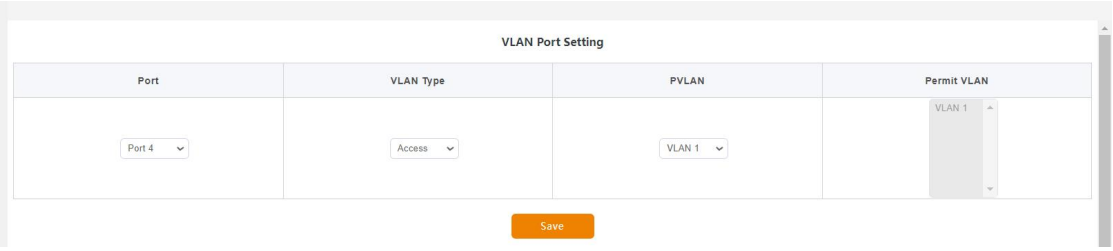
Tips:

1. Configure up to 16 VLAN members;
2. When VLAN ID is bound by port, it cannot be deleted.

3.3.2 VLAN Settings

Port VLAN configuration is divided into two parts:

Part I: Port VLAN configuration, select port, VLAN type (access and trunk, allow VLAN can be configured under trunk), allow VLAN and native VLAN, and click《**Save**》 to configure and save port VLAN (Permit VLAN and Native VLAN are selected from the VLAN members configured above);



Part II: Port VLAN list, which displays the VLAN configuration of the device port.

Tips: the message under Native VLAN does not have VLAN tag.

Port	VLAN Type	PVLAN	Permit VLAN
Port 4	Hybird	1	1
Port 5	Hybird	1	1
Port 6	Hybird	1	1
Port 7	Hybird	1	1
Port 8	Hybird	1	1
Trunk1	Hybird	1	1
Port 9	Hybird	1	1
Port 10	Hybird	1	1

3.4 PoE Settings

Tips:
Some models support Poe function

3.4.1 PoE Settings

Includes port PoE configuration and display:
Configuration part:
<Mode>:Select Enable/disable to turn on/off the PoE function per port
<Extend PoE Mode>:Select On/Off to enbale or disable the extend PoE mode (250M PoE) on this port
<PoE Watchdog>:Select On/Off to enbale or disable the PoE watchdog function on this port
<PoE Reboot>: Select to reboot the PoE power output of this port.

Click <Save> to save the configuration

Display part:
Display the power of port PoE and the current power supply status

Port	PD Class	Power Allocated	Power Used	Current Used	Extend PoE Mode	PoE Watchdog	PoE Real Status
Port 1	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected
Port 2	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected
Port 3	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected
Port 4	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected
Port 5	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected
Port 6	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected
Port 7	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected
Port 8	-	0[W]	0[W]	0[mA]	OFF	OFF	No PD detected

Tips:
1. Disable port Poe. Port Poe will not be powered.

3.5 Onvif

Support Onvif protocol function to discover devices.

Click Detect to discover the ONVIF cameras,

3.6 Cloud Settings

3.6.1 MQTT Client

The cloud settings function is implemented based on the MQTT protocol, and the device is used as an MQTT client.

Select “Enabled” for “MQTT Client”, configure the IP address and port of the cloud for MQTT Server IP address and port, and click《**Save**》to configure; When the connection is successful, the “MQTT Connect Status” is displayed as Connected

Tips:

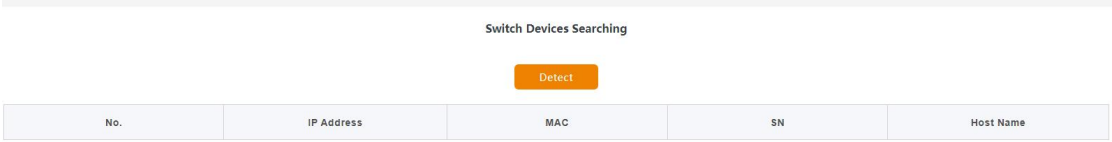
1. Cloud Settings function is optional.

2. The “MQTT Connect Status” needs to refresh the page to update the status.

3.6.2 Wi-tek Devices Discovery Table

The discovery function makes it possible to discover other Wi-tek brand devices in the network.

Click <Delect> to discover the devices.



4 Frequently Asked Questions

Question 1: unable to log in to the device manager web management interface. What should I do?

Refer to the following steps:

1) Confirm that the PC network cable is normally connected to the device port, and the corresponding indicator flashes.

2) Before accessing the setting interface, it is recommended to set the computer to "static IP mode" and configure it to 10.XX.XX.XX (e.g. 10.224.0.121, which cannot be consistent with the device configuration IP 10.XX.XX.XX (XX.XX.XX is the last three digits of the MAC address of the current device)), subnet mask: 255.0.0.0.

3) Use the ping command to detect the connectivity between the computer and the device.

Question 2: what if you forget your device user name and password? How to restore the factory configuration?

If you forget the login password, long press the reset key on the panel for 5 seconds when the device is powered on, and the device will be restored to the factory setting after restarting