

Wi-Tek Cloud Easy Smart PoE Switch

WEB User Manual

www.wireless-tek.com

This manual applies to the following switch models

model	Interface
WI-PCES206	4-port 100Mbps PoE RJ45 and 2-port 100Mbps RJ45 uplink
WI-PCES210G	8-port 100Mbps PoE RJ45 and 2-port 1000Mbps RJ45 uplink
WI-PCES218GF	16-port 100Mbps PoE RJ45 and 2-port 1000Mbps Combo SFP
WI-PCES226GF	24-port 100Mbps PoE RJ45 and 2-port 1000Mbps Combo SFP
WI-PCES509GF	8-port 10/100/1000/2500Mbps PoE+ RJ45 and 1-port 1/2.5/10Gbps SFP+ Slot
WI-CES506GF	4-port 10/100/1000/2500Mbps RJ45 and 2-port 1/2.5/10Gbps SFP+ Slots
WI-CES509GF	8-port 10/100/1000/2500Mbps RJ45 and 1-port 1/2.5/10Gbps SFP+ Slot
WI-PCES206-O	4-port 100Mbps PoE RJ45 and 2-port 100Mbps RJ45 uplink
WI-PCES210G-O	8-port 100Mbps PoE RJ45 and 2-port 1000Mbps RJ45 uplink

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Disclaimers

Preface

Reader object

This document is suitable for the following people

-  Network Engineer
-  Technical Promotion Personnel
-  Network Administrator

Technical Support

-  Website: <https://www.wireless-tek.com>

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.

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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

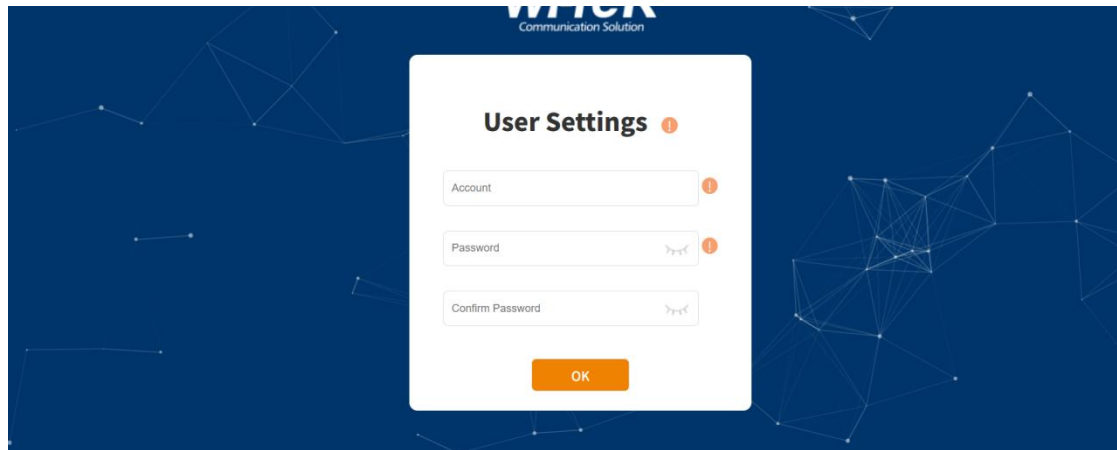
This section describes how to navigate the web-based switch configuration utility. Be sure to disable any pop-up blocker.

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.

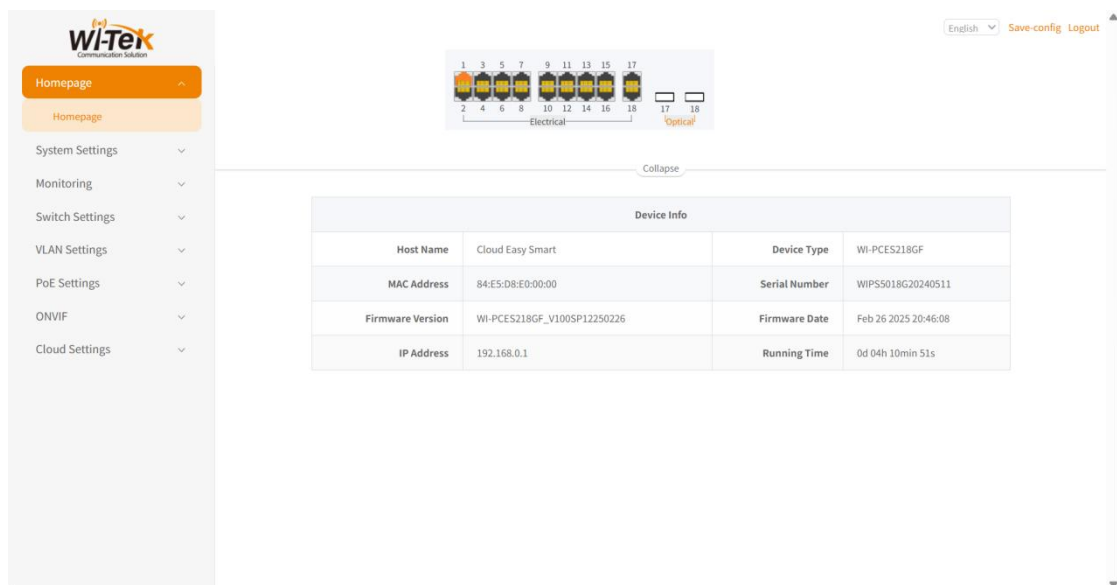


2.4 Logging In

To log in to the device configuration utility:

In the factory state, the first login requires setting an account and password.

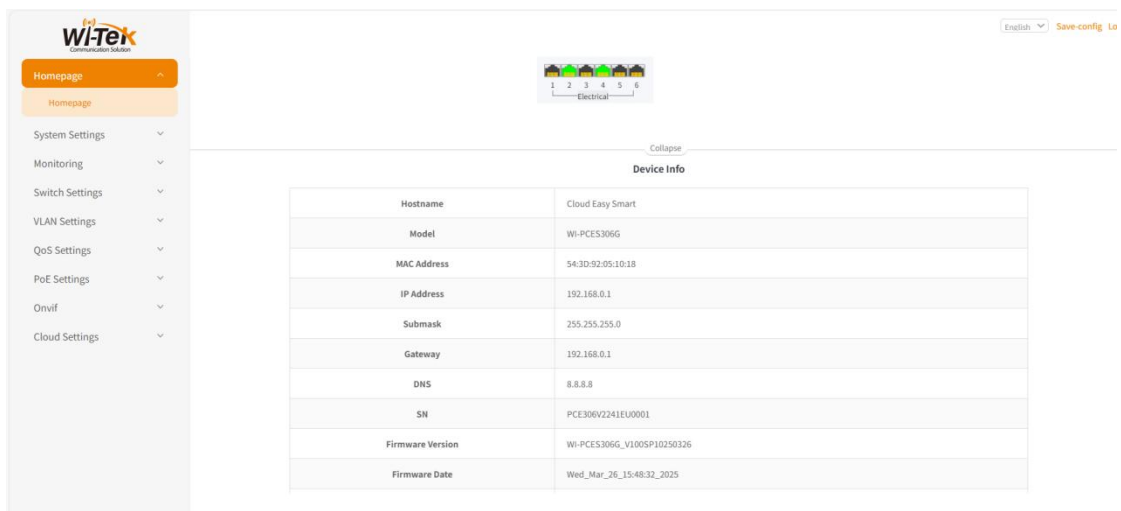
When the account and password is set successful, the System Information window displays.



2.5 Web-based Switch Configuration

The Easysmart 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:

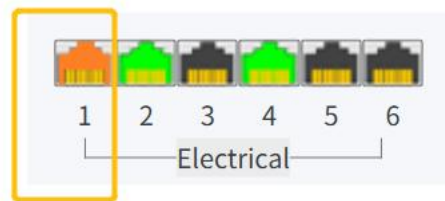
The left part is the menu bar, which displays the links of all configuration functions of the equipment, such as monitoring management and switch configuration module.

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.

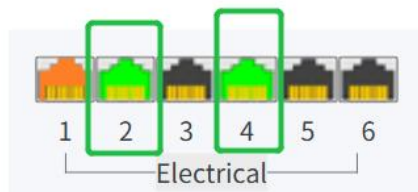
Port Status Bar:

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.

Collapse

IP Settings

Manage VLANs	VLAN1
Auto Obtain IP	Enabled
IP Address	192.168.0.1
Submask	255.255.255.0
Gateway	192.168.0.1
Auto Obtain DNS	Disabled
DNS	8.8.8.8

Apply

3.1.2 IP Settings

Configure device management IP (default static IP: 192.168.0.1)

Collapse

IP Settings

Manage VLANs	VLAN1
Auto Obtain IP	Enabled
IP Address	192.168.0.1
Submask	255.255.255.0
Gateway	192.168.0.1
Auto Obtain DNS	Disabled
DNS	8.8.8.8

Apply

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

User Management

User Name	Administrator
Old Password	
New Password	
Confirm Password	

Apply

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**:

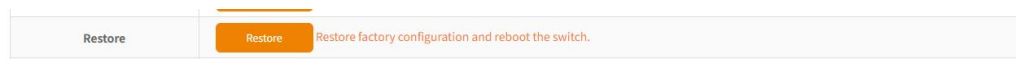
1. Local upgrade

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 Reset

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



3.1.6 Save Configuration

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



3.1.7 Reboot

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

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.

Copper Port Setting

Ports	Admin Status	Speed	Duplex	Flow Control 	EEE 
--Please select--	Enabled 	Auto 	Auto 	Disabled 	Disabled 

Display part:

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

Port List							
No.	Port	Admin Status	Speed Duplex		Flow Control		EEE
			Config	Actual	Config	Actual	
1	Port 1	Enabled	Auto/Full	100M/Full	Enabled	Enabled	Disabled
2	Port 2	Enabled	Auto/Auto	Link Down	Enabled	Disabled	Enabled
3	Port 3	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled
4	Port 4	Enabled	Auto/Auto	1000M/Full	Disabled	Disabled	Disabled
5	Port 5	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled
6	Port 6	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled

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.

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 Mirror Setting

Session ID	Source Port Member	Direction	Mirror Port
1	--Please select --	In	Port 1

Apply

Port Mirror Group

	Session ID	Source Port Member	Direction	Mirror Port
☐				

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

Port Isolation Setting

Port	Isolation Port
Port 2	--Please select --

Add

Display the port isolation list

Port Isolation Setting

Port	Isolation Port
Port 1	--Please select --

Add

Port Isolation Table

☐	Port	Isolation Port
☐	2	1, 4

Delete

3.2.6 Port Rate Control

Select the port for configuring Ingress or Egress, enter the rate value and click save to configure the bandwidth control settings

Port Rate

Port	Limit Type	Status	Rate(Mbit/sec)
--Please select --	Ingress	Disabled	No Limit (1-1000M)

Apply

Entry	Port	Ingress		Egress	
		Status	Rate(Mbit/sec)	Status	Rate(Mbit/sec)
1	Port1	Enabled	50	Enabled	50
2	Port2	Disabled	1000	Disabled	1000
3	Port3	Disabled	1000	Disabled	1000
4	Port4	Disabled	1000	Disabled	1000
5	Port5	Disabled	1000	Disabled	1000
6	Port6	Disabled	1000	Disabled	1000

3.2.7 Search MAC

Search the MAC table learned by the device

MAC Address	VLAN ID
00-00-00-00-00-00	(1-4094)

Detect

Tips:

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

3.2.8 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 Setting

Up to 16 Static MAC addresses can be configured.

MAC Address	VLAN ID	Port	Source MAC Blocking
00:00:00:00:00:00	(1~4094)	Port 4	☐

Add

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.

No.	MAC Address	VLAN ID	Port	Source MAC Blocking	Select
Delete					

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, click **《Apply》** to configure a new VLAN member;

VLAN Member

VLAN ID

Apply

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

☐	No.	VLAN ID
☒	1	1
☐	2	3
☐	3	5

Delete

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);

Collapse

VLAN Settings

Port	VLAN Type	Access VLAN	Native VLAN	Permit VLAN
--Please select --	Access	VLAN 1	VLAN 1	--Please select --

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.

Apply

Port	VLAN Type	Access VLAN	Native VLAN	Permit VLAN
Port 1	Access	1	--	--
Port 2	Access	3	--	--
Port 3	Access	1	--	--
Port 4	Access	1	--	--
Port 5	Access	1	--	--
Port 6	Access	1	--	--

3.3.3 Configuring Management VLAN

Choose the menu **System Settings > IP Settings> Management VLAN** to load the following page.

Follow these steps to configure the management VLAN:

1) Specify the management VLAN ID.

Device Info

IP Settings

WEB Settings

User Management

Upgrade

Device Management

Monitoring

Switch Settings

VLAN Settings

QoS Settings

PoE Settings

Collapse

IP Settings

Manage VLANs	VLAN20
Auto Obtain IP	VLAN1
IP Address	VLAN10
Submask	VLAN0
Gateway	255.255.255.0
Auto Obtain DNS	192.168.0.1
DNS	Enabled
	0.0.0.0

Apply

2) Click **Apply**.

Management VLAN ID	Configure specific management VLANs, which should be within the range the configured 802.1Q VLANs. After configuration, only PCs with management VLAN tags can access to the management interface. Multiple management VLAN IDs can be configured.
--------------------	--

Note:

- Only the computer in this VLAN can access the management interface of the switch.
- By default, the management VLAN ID is 1.

3.4 PoE Settings

Tips:
Some models support Poe function

3.4.1 PoE Global Info

Displays the global information of the device PoE function

PoE Global Info	
PoE Hardware Version	V1.0
PoE Work Status	Normal
PoE Support Type	802.3af/802.3at
PoE Consumption Power	1W
PoE Port Number	4
PoE Total Power	60W
PoE Voltage	53 V
Software Version	V1.0.3

3.4.2 PoE Global Info

PoE Basic settings

Includes port PoE configuration and display:

Configuration part:

Select the PoE power supply status, priority and limited power of the configured port, and click **《Apply》** to configure PoE.

PoE Basic Settings

Port	PoE Control Status	Extend PoE Mode	Priority	PoE Limit
--Please select--	Enabled	Off	Low	32 (1-32W)

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

Entry	Port	PoE Control Status	Power Status	Extend PoE Mode	PoE Limit(1-32W)	Power	Priority	Class
1	Port1	Enabled	On	Off	32W	1W	Low	0
2	Port2	Enabled	Off	Off	32W	0W	Low	N/A
3	Port3	Enabled	Off	Off	32W	0W	Low	N/A
4	Port4	Enabled	Off	Off	32W	0W	Low	N/A

3.4.3 PD Alive

Configuration part:

Configure the detection time of PD Alive (60-86400s. When no communication is detected on the port, PoE will be restarted automatically). Click 《**Apply**》 to configure PD alive.

Collapse

PD Alive

Monitor Time

3600

(60~86400,default 3600s)

Apply

Port	Monitor Status
--Please select--	Disabled ▼

Display part:

Displays the number of restarts of device PD Alive.

2	Port2	Disabled	0
3	Port3	Disabled	0
4	Port4	Disabled	0

3.5 Onvif

Support Onvif protocol function to discover devices

Onvif Detect

No.	MAC Address	IP Address	Port	Model
-----	-------------	------------	------	-------

Detect

Refresh

Clear

Click 《**Detect**》 to find the device.

Collapse

Onvif Detect

No.	MAC Address	IP Address	Port	Model
1	EC:C8:9C:24:2A:6F	169.254.107.156	3	Unknow

Detect

Refresh

Clear

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

MQTT Connect Status	Disconnect
Connected Server IP	0.0.0.0
Connected Server Port	0

Tips:

1. Cloud Settings function is optional.
2. The “MQTT Connect Status” needs to refresh the page to update the status.

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 192.168.0.XX (e.g. 192.168.0.2), subnet mask: 255.255.255.0.
- 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.