

PS5010G-2GS-8PoE Managed Full Gigabit Industrial Ethernet PoE Switch

User Manual



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Chapter 1 Product Introduction

Congratulations on your purchasing of the PoE Web Smart Ethernet Switch. Before you install and use this product, please read this manual carefully for full exploiting the functions of this product.

1.1 Product Overview

This is a new generation designed for high security and high performance network the second layer switch. Provides eight 10/100/1000Mbps self-adaption RJ45 port, and two 100/1000Mbps SFP optical ports, all ports support wire-speed forwarding, can provide you with larger network flexibility. Support VLAN ACL based on port, easily implement network monitoring, traffic regulation, priority tag and traffic control. Support traditional STP/RSTP/MSTP 2 link protection technology; greatly improve the ability of fault tolerance, redundancy backup to ensure the stable operation of the network. Support ACL control based on the time, easy control the access time accurately. Support 802.1x authentication based on the port and MAC, easily set user access. Perfect QOS strategy and plenty of VLAN function, easy to maintenance and management, meet the networking and access requirements of small and medium-sized enterprises, intelligent village, hotel, office network and campus network.

The is 8 ports have POE power supply function, support IEEE802.3at standard, 802.3af downward compatibility, power supply equipment for Ethernet, can automatically detect identification standard of electrical equipment, and through the cable for the power supply.

1.2 Features

- Comply with IEEE 802.3i, IEEE 802.3u, IEEE802.3x, IEEE802.3ab, IEEE802.1q, IEEE802.1p standards.
- Supports IEEE802.3af、IEEE802.3at standards.
- Supports PoE power up to 30W for each PoE port, all power up to 140W.
- Supports manage the POE port, support POE power off open the port, and port output power restriction.
- > Support Web interface management.
- > 8 x 10/100/1000Mbps Auto MDI/MDI-X Ethernet port, Support ports Auto MDI/MDIX.
- > 8K entry MAC address table of the switch with auto-learning and auto-aging.
- Supports IEEE802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode.
- > supports QoS (quality of service), port mirror, Link aggregation protocol.
- Support packet length 9216Bytes jumbo frame packet forwarding at wire speed.
- Supports 4KV Surge Immunity for all UTP ports.
- > LED indicators for monitoring PSE, Link / Activity/Speed.



1.3 External Component Description

1.3.1 Front Panel

The front panel of the Switch consists of 8 x 10/100/1000 Mbps RJ-45 ports, 1x CONSOLE port, 2 x SFP ports, 1 x RESET button and a series of LED indicators as shown as below.

8 Ports 10/100/1000Mbps+2 SFP Managed PoE Ethernet Switch	1 3 5 7	5 7		30	onedata
	PWR 0 0 0 0 0105		CONSOLE	SFP1	

Figure 1 - Front Panel

10/100/1000Mbps RJ-45 ports (1~8):

Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps or 1000Mbps. Each has a corresponding 10/100/1000Mbps LED.

CONSOLE port (CONSOLE):

Designed to connect with the serial port of a computer or terminal for monitoring and configuring the Switch.

SFP ports (SFP1, SFP2):

Designed to install the SFP module and connect to the device with a bandwidth of 1000Mbps. Each has a corresponding 1000Mbps LED.

RESET button (**RESET**):

Keep the device powered on and push a paper clip into the hole.

Press down the button for 2 seconds to reboot the Switch, Press down the button for 5 seconds to restore the Switch to its original factory default settings.

LED indicators:

The LED Indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the Switch, connection or attached devices.

8 Ports 10/100/1000Mbps+;	SEP Managed PoE
Ethernet Switch	
Ethernet Switch	
	Poe 📰 📰 📰
	PWR 🖾 🔘 🔘 🔘 🔘
	RESET 🕘 🔲 🕅 🕅

Figure 2 - LED Indicators

The following chart shows the LED indicators of the Switch along with explanation of each indicator.



LED	COLOR	STATUS	STATUS DESCRIPTION
PWR	Green	On	Power On
FVK	Gleen	Off	Power Off
	10/100M:	On	A device is connected to the port
LINK/ACT/	Orange	0#	A device is disconnected to the part
(1-8)	1000M:	Off	A device is disconnected to the port
	Green	Flashing	Sending or receiving data
		On	A Powered Device is connected to the port,
			which supply power successfully
			No PD is connected to the corresponding
PoE	Yellow	Off	port, or no power is supplied according to
			the power limits of the port
		Flashing	The PoE power circuit may be in short or
		ridoning	the power current may be overloaded
		On	A device is connected to the port
LINK/ACT/ (9S-10S)	Green	Off	A device is disconnected to the port
		Flashing	Sending or receiving data

1.3.2 Rear Panel

The rear panel of the Switch contains AC power connector and one marker shown as below.



Figure 3 - Rear Panel

AC Power Connector:

Power is supplied through an external AC power adapter. It supports AC 100~240V, 50/60Hz.

1.4 Package Contents

Before installing the Switch, make sure that the following the "packing list" listed OK. If any part is lost and damaged, please contact your local agent immediately. In addition, make sure that you have the tools install switches and cables by your hands.



- > One PoE Web Smart Ethernet Switch.
- > Four rubber feet, two mounting ears and eights screws.
- > One AC power cord.
- One User Manual.



Chapter 2 Installing and Connecting the Switch

This part describes how to install your PoE Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.

2.1 Installation

Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

- > Put the Switch on stable place or desktop in case of falling damage.
- Make sure the Switch works in the proper AC input range and matches the voltage labeled on the Switch.
- To keep the Switch free from lightning, do not open the Switch's shell even in power failure.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch.
- Make sure the cabinet to enough back up the weight of the Switch and its accessories.

2.1.1 Desktop Installation

Sometimes users are not equipped with the 11-inch standard cabinet. So when installing the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it.

2.1.2 Rack-mountable Installation in 11-inch Cabinet

The Switch can be mounted in an EIA standard-sized, 11-inch rack, which can be placed in a wiring closet with other equipment. To install the Switch, please follow these steps:

a. attach the mounting brackets on the Switch's side panels (one on each side) and secure them with the screws provided.



Figure 4 - Bracket Installation



b. use the screws provided with the equipment rack to mount the Switch on the rack and tighten it.



Figure 5 - Rack Installation

2.1.3 Power on the Switch

The Switch is powered on by the AC 100-240V 50/60Hz internal high-performance power supply. Please follow the next tips to connect:

AC Electrical Outlet:

It is recommended to use single-phase three-wire receptacle with neutral outlet or multifunctional computer professional receptacle. Please make sure to connect the metal ground connector to the grounding source on the outlet.

AC Power Cord Connection:

Connect the AC power connector in the back panel of the Switch to external receptacle with the included power cord, and check the power indicator is ON or not. When it is ON, it indicates the power connection is OK.

2.2 Connect Computer (NIC) to the Switch

Please insert the NIC into the computer, after installing network card driver, please connect one end of the twisted pair to RJ-45 jack of your computer, the other end will be connected to any RJ-45 port of the Switch, the distance between Switch and computer is around 100 meters. Once the connection is OK and the devices are power on normally, the LINK/ACT/Speed status indicator lights corresponding ports of the Switch.

2.3 Switch connection to the PD

1-8 ports of the Switch have PoE power supply function, the maximum output power up to 30W each port, it can make PD devices, such as internet phone, network camera,



wireless access point work.You only need to connect the Switch PoE port directly connected to the PD port by network cable.



Chapter 3 How to Login the Switch

3.1 Switch to End Node

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

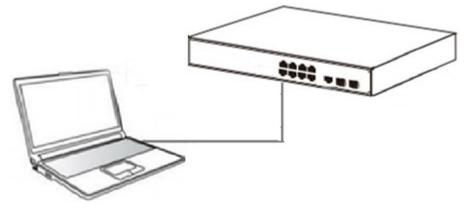


Figure 6 - PC Connect

Please refer to the **LED Indicators.** The LINK/ACT/Speed LEDs for each port lights on when the link is available.

3.2 How to Login the Switch

As the Switch provides Web-based management login, you can configure your computer's IP address manually to log on to the Switch. The default settings of the Switch are shown below.

Parameter	Default Value
Default IP address	192.168.1.254
Default user name	admin
Default password	admin

You can log on to the configuration window of the Switch through following steps:

- 1. Connect the Switch with the computer NIC interface.
- 2. Power on the Switch.
- 3. Check whether the IP address of the computer is within this network segment: 192.168.1.xxx ("xxx" ranges 2~254), for example, 192.168.1.100.
- 4. Open the browser, and enter *http://192.168.1.254* and then press "Enter". The Switch login window appears, as shown below.



Welcome To Web S	mart Managamor	at Sustam		
	JSER LOGIN	n oyatem		
	JSER LUGIN			
Please input u	ser name and password !			
User Name:	admin			
Password:	•••••			
Language:	English 👻			
	LOGIN			

Figure 7- Login Windows

5. Switching language to english .Enter the Username and Password (The factory default Username is **admin** and Password is **admin**), and then click "LOGIN" to log in to the Switch configuration window as below.

Welcome To We	leb Smart Management System	
	k user login	
	CSER LOGIN	
Please	e input user name and password !	
UserN	Name: admin	
Passw	sword:	
Langua	juage: English	
	LOGIN	



		- 11				
ckly Set	VLAN Setting	IS				
		VLAN ID	VLAN Name	VLA	N IP	Port Edit / Delete
afety		1	VLAN0001	192.16	8.2.1/24 1-10	
	New VLAN	I 🤤 Delete VLAN			first page pre-	v page [1] next page last page 1 /
RELAY	Trunk Setting	js				
		Port Name	Description	Native VLAN:	Allowed VLAN	Edit / Delete
able	New Trunk	k Port 🥥 Delete Trunk Port			first page pre-	v page [1] next page last page 1 /
М						
				→ Next		



Chapter 4 Switch Configuration

The Web Smart Ethernet Switch Managed switch software provides rich layer 2 functionality for switches in your networks. This chapter describes how to use Web-based management interface(Web UI) to this switch configure managed switch software features.

In the Web UI, the left column shows the configuration menu. Above you can see the information for switch system, such as memory, software version. The middle shows the switch's current link status. Green squares indicate the port link is up, while black squares indicate the port link is down. Below the switch panel, you can find a common toolbar to provide useful functions for users. The rest of the screen area displays the configuration settings.

Home	Device Type: SW-5010	Software Version: D	161019	Uptime: 2:19				
Quickly Set	Serial Number: G1GB0U S007211	Hardware Version: 1	.00					
ORT								
AN								
ult/Safety								
Anti Attack								
Channel Detection				Canaala OF 10F				
ACL				8 Console 9F 10F				
E								
Р								
CP RELAY								
S								
dr Table MP						100M 🙆 1000M 🐞 PI		
							UE Disconnecte	d EM Disabled
SIEM	Port Information Device	e Configuration Port St	tatistics					
STEM	Port Information Device Keyword Input port number or p		atistics					
STEM				Output Flow(Bps)	Port Status	Port Connection	VLAN	Trunk Po
STEM	Keyword Input port number or p	port descripti Search	Refresh	Output Flow(Bps)	Port Status ON	Port Connection	VLAN 1	Trunk Po No
STEM	Keyword Input port number or p	port descripti Search	Refresh					
STEM	Keyword Input port number or p Port a Gi 0/1	port descripti Search	Refresh	0.00K	ON	S Disconnected	1	No
STEM	Keyword Enput port number or p Port A Gi 0/1 Gi 0/2	port descripti Search	Refresh Input Flow(Bps) 0.00K 4.57M	0.00K 9.49M	ON	Connected	1	No
SIEM	Keyword Input port number or p Port a Gi 0/1 Gi 0/2 Gi 0/3	port descripti Search	Refresh Input Flow(Bps) 0.00K 4.57M 0.00K	0.00K 9.49M 0.00K	ON ON ON	Solution Solution Solution Solution Solution Solution Solution	1 1 1	No No No
STEM	Keyword Input port number or p Port = Gi 0/1 Gi 0/2 Gi 0/3 Gi 0/4	port descripti Search	Refresh Input Flow(Bps) 0.00K 4.57M 0.00K 0.00K	0.00K 9.49M 0.00K 0.00K	ON ON ON ON	Solution Solution Solution Solution Solution Solution Solution	1 1 1 1 1	No No No No
JEM	Keyword Input port number or p Port Gi 0/1 Gi 0/2 Gi 0/3 Gi 0/4 Gi 0/5	port descripti Search	Imput Flow(8ps) 0.00K 4.57M 0.00K 0.00K 0.00K 0.00K 0.00K	0.00K 9.49M 0.00K 0.00K 0.00K	ON ON ON ON	State Disconnected State Disconnected State Disconnected State Disconnected	1 1 1 1 1	No No No No No
SIEM	Keyword Input port number or p Port Gi 0/1 Gi 0/2 Gi 0/3 Gi 0/3 Gi 0/4 Gi 0/5 Gi 0/6	port descripti Search	Imput Flow(Bps) 0.00K 4.57M 0.00K 0.00K 0.00K 0.00K 0.00K	0.00K 9.49M 0.00K 0.00K 0.00K 0.00K	ON ON ON ON ON	State Disconnected State Disconnected State Disconnected State Disconnected State Disconnected State Disconnected	1 1 1 1 1 1	No No No No No
SIEM	Keyword Input port number or p Port Gi 0/1 Gi 0/2 Gi 0/3 Gi 0/4 Gi 0/5 Gi 0/5 Gi 0/7	port descripti Search	Input Flow(Bps) 0.00K 4.57M 0.00K 0.00K 0.00K 0.00K 0.00K 0.00K 0.00K 0.00K 0.00K	0.00K 9.49M 0.00K 0.00K 0.00K 0.00K 0.00K	ON ON ON ON ON ON	State State State Connected State State State State State State State State State State	1 1 1 1 1 1 1 1	No No

4.1 Quickly setting

In the navigation bar to select "**quickly setting**", can create a VLAN in this module, add the port in the VLAN, set the basic information and modify the switch login password. the following picture:



gs VLAN ID 1 Second Sec	VLAI Name VLAN0001 Description		AN IP Port S82.1/24 1-10 first page prev page [1] r Allowed VLAN first page prev page [1] r	Edit / Delete
1 NI 🤤 Delete VLAN ngs Port Name	VLAN0001	192.16	85.2.1/24 1-10 first page prev page [1] in Allowed VLAN	next page last page 1 / 1 pag
N 🤤 Delete VLAN Igs Port Name			first page prev page [1] d Allowed VLAN	next page last page / 1 pag Edit / Delete
ngs Port Name	Description	Native VLAN:	Allowed VLAN	next page last page / 1 pag Edit / Delete
Port Name	Description	Native VLAN:		
Port Name	Description	Native VLAN:		
ık Port 🥥 Delete Trunk Port			first page prev page [1] r	next page last page 1 / 1 pag
		Hext]	
			Hext	€ Next

[parameter description]

parameter	description	
VLAN ID	VLAN number, 8GE default VLAN 1	
VLAN name	VLAN mark	
Manage IP	Manage the IP address of the VLAN	
device name	Switch name	
Manage VLAN	Switches management in use of the VLAN	

[instructions]

Native VLAN: as a Trunk, the mouth will belong to a Native VLAN. The so-called Native VLAN, is refers to UNTAG send or receive a message on the interface, is considered belongs to the VLAN. Obviously, the interface of the default VLAN ID (PVID) in the IEEE 802.1 Q VLAN ID is the Native VLAN. At the same time, send belong to Native VLAN frame on the Trunk, must adopt UNTAG way.

Allowed VLAN list: a Trunk can transport the equipment support by default all the VLAN traffic (1-4094). But, also can by setting the permission VLAN Trunk at the mouth of the list to limit the flow of some VLAN can't through the Trunk.

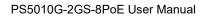
【Configuration example】

1) VLAN setting:such as create VLAN 2, Sets the port 8 to Trunk, Native VLAN 2.



VLAN setting	Other settings	
VLAN setting	new VLAN	
	VL VLAN ID(1~4094): 2 * VLAN name(1-32 character) : VLAN0002	
💿 new VLAN 💿 delete		
Trunk settings		
explain: If a port is allowed		
	po Coptional P Not optional Selected 7 Aggregation	ГЛТ
🔘 new Trunk port 🤤 d	le	
	quit	
	VLAN ID VLAN name	
	iew Trunk port	
	choose port to set up	
 new VLAN dele Trunk settings 	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
explain: If a port is allowe	C Optional P Not optional Selected א א Aggregation ך	
new Trunk por	Native Vlan: 2 (1) Allowing VLAN(such as 3-5,8,10): 1	
	cave quit	

2) click"next step" button, into other settings, such as:manage ip address set as 192.168.2.11, device name set as switch-123, default gateway with the dns server set as 172.16.1.241.





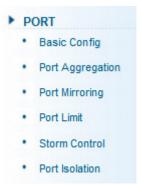
VLAN setting Other settings	
device basic information	
manage VLAN: 1 manage IQ: 192. 168. 2. 11 * Subnet mask: 255. 255. 255. 0 * save settings	device pame Switch-123 * default gateway: 192. 168. 2. 22 DNS server: 172. 16. 1. 241

Use 192.168.2.11 to log in, set a new password for 1234 .

Web administrator password		
Prompt: If you set up a new Web logi	password, then use the new password to log in after setting up. Passwords can only be contained in English, figures, and under	rlined.
old password:	••••	
new password	•••	
comfirm new password		
	E Last step	

4.2 PORT

In the navigation bar to select "**PORT**", You may conduct basic config, port aggregation, port mirroring , port limit and port isolation.



4.2.1 Basic config

In the navigation bar to select "**PORT>basic config**", For panel port to port described , port speed, port status, working mode, flow control, cross line order configuration, the following picture:



Home	Basic Setting	Is							
luickly Set									
T asic Config ort Aggregation ort Mirroring ort Limit torm Control ort Isolation	Image: Control of the second secon	Fixed port Selected Magregation for Transmission for Transmission for the select multiple ports rag cursor over ports to select multiple ports Selection for the select multiple ports Description(0-80 characters):		others Cance	el tus: Enabled				
Safety		Port Speed: Auto	Cable T	ype Detectio		•			
	Save		Cable I	ype beteene	A010	•			
	D (11) (
RELAY	Port List		Port	Port	Working		Cable Type	Flow	
	Port List Port	Port Description	Port Status	Port Speed	Working Mode	Mega Frame	Cable Type Detection	Flow Control	Edit
Table		Port Description				Mega Frame 1518			Edit
fable	Port	Port Description	Status	Speed	Mode		Detection	Control	
Table .	Port Gi0/1	Port Description	Status Enabled	Speed Auto	Auto	1518	Detection	Control Off	
fable	Port Gi0/1 Gi0/2	Port Description	Status Enabled Enabled	Speed Auto 1000M	Mode Auto Duplex	1518	Auto Auto	Control Off Off	2
Table .	Port Gi0/1 Gi0/2 Gi0/3	Port Description	Status Enabled Enabled Enabled	Speed Auto 1000M Auto	Mode Auto Duplex Auto	1518 1518 1518	Detection Auto Auto Auto	Control Off Off Off	
fable	Port Gi0/1 Gi0/2 Gi0/3 Gi0/4	Port Description	Status Enabled Enabled Enabled Enabled	Speed Auto 1000M Auto Auto	Mode Auto Duplex Auto Auto Auto Auto Auto	1518 1518 1518 1518 1518	Detection Auto Auto Auto Auto Auto	Control Off Off Off Off Off Off Off	
Table .	Port Gi0/1 Gi0/2 Gi0/3 Gi0/4 Gi0/5	Port Description	Status Enabled Enabled Enabled Enabled	Speed Auto 1000M Auto Auto Auto	Mode Auto Duplex Auto Auto Auto Auto Auto Auto Auto Auto	1518 1518 1518 1518 1518 1518	Detection Auto Auto Auto Auto Auto Auto	Control Off Off Off Off Off Off	
RELAY Table EM	Port Gi0/1 Gi0/2 Gi0/2 Gi0/3 Gi0/4 Gi0/4 Gi0/5 Gi0/6 Gi0/6	Port Description	Status Enabled Enabled Enabled Enabled Enabled Enabled	Speed Auto 1000M Auto Auto Auto 100M	Mode Auto Duplex Auto Auto Auto Auto Duplex Duplex Auto Duplex Auto Auto Auto Auto Auto Auto Auto Auto	- 1518 1518 1518 1518 1518 1518	Detection Auto Auto Auto Auto Auto Auto Auto Auto	Control Off Off Off Off Off Off Off Off Off Of	
able	Port Gib/1 Gib/2 Gib/2 Gib/2 Gib/2 Gib/2 Gib/2 Gib/2 Gib/2 Gib/2 Gib/6 Gib/6 Gib/7 G	Port Description	Status Enabled Enabled Enabled Enabled Enabled Enabled	Speed Auto 1000M Auto Auto Auto 100M Auto	Mode Auto Duplex Auto Auto Auto Duplex Auto Auto Auto Duplex Auto Auto Auto Duplex Auto Auto Auto Auto Auto Auto Auto Auto	- 1518 1518 1518 1518 1518 1518 1518	Detection Auto Auto Auto Auto Auto Auto Auto	Control Off Off Off Off Off Off Off Off Off Of	

[parameter description]

parameter	description
port	Select the current configuration port number
port status	Choose whether to close link port
flow control	Whether open flow control
port speed	Can choose the following kinds: Aggregation 10 M 100 M 1000 M
working mode	Can choose the following kinds: Self negotiated 10 M 100 M 1000 M
port described	The port is described
Cross line sequence	Whether open intersection line sequence

[instructions]

Open flow control should be negotiated will close, negotiated close is to set port speed rate and working mode. Set the port rate more than actual rate of port, the port will be up.

【Configuration example】

Such as:The port is set to 10 M, half duplex, open flow control and cross line sequence and port state.



Port basic settings

Explain: Select ports on the panel can be set on the port

Notice: If the selected parameter is not supported, the corresponding parameter settings will not take effect!

Select the port to setting:				
	2			
COptional 🚍 Not optional 🚍 S	Selected [1] Aggregation	Trunk [] ip source enable port	Tips : drag to s	elect multiple ports
Port description(0-80 character):		Port status:	Open	-
Port speed:	10M 🗸	Working mode:	Half duplex	-
Flow control:	Open 👻	Cross line order:	Open	•
Mega frame	1518 (1	518-12288)		
Save setting	L	1		

4.2.2 Port aggregation

In the navigation bar to select "**PORT>port aggregation**", In order to expand the port bandwidth or achieve the bandwidth of the redundancy backup, the following picture:

😸 Home	Port Aggregation		
Quickly Set PORT Basic Config	Aggregate Group Number(1-8) : • Please select the port to join the Aggregate Group:	_	
Port Aggregation Port Mirroring Port Limit			
Storm Control Port Isolation VLAN	Optional Image: Fixed port Image: Selected Image: Aggregation Image: Trunk Image: Pource Enable Port Tip : Click and drag cursor over ports to select multiple ports Select all Select all Others		
Fault/Safety	Save		
▶ PoE	Port Aggregation List		
► STP	Aggregation Group Number	Group Members	Edit / Delete
DHCP RELAY		first page prev page [1]	next page last page 1 / 1 page
▶ QOS			
Addr Table			
► SNMP			
SYSTEM			

[parameter description]

parameter	description
	8 GE switch can be set up eight link trunk group, group_1 to
Aggregation port	group_8
	For each of the members of the group and add your own port,
Member port	and with members of other groups

[instructions]

Open the port of the ARP check function, the port of the important device ARP, the port of the VLAN MAC function, and the monitor port in the port image can not be added!

【Configuration example】



Such as: set the port 7, 8, for aggregation port 1, lets this aggregation port 1 connected to other switch aggregation port 1 to build switch links .

Port aggregation
Explain: In order to expand the port bandwidth or achieve the bandwidth of mouth, through the diversion of the flow of the network between the membe Notice: Open the port of the ARP check function, the port of the important d
Aggregate port number(1-8) : 1 * Please select the port to join the aggregate port:
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
C Optional R Not optional Selected Aggregation C Trunk
Add setting

4.2.3 Port mirroring

In the navigation bar to select "**PORT>port mirroring**", Open port mirror feature, All packets on the source port are copied and forwarded to the destination port, Destination port is usually connected to a packet analyzer to analyze the source port, Multiple ports can be mirrored to a destination port, the following picture:

🛃 Home	Port Mirroring	
Quickly Set PORT Basic Config	Mirror Group Number (1-4) : • Please choose the source port:(Selecting multiple source ports can affect the device performance)	
Port Aggregation Port Mirroring Port Limit	$\begin{array}{c}1 & 3 & 5 & 7 & 9\\ \hline $	
Storm Control	🖸 Optional 🛄 Fixed port 💼 Selected 🛐 Aggregation 💭 Trunk 😰 P Source Enable Port	
Port Isolation	Tip: Click and drag cursor over ports to select multiple ports Select all Select all others Cancel	
► VLAN	Please choose the destination port:(Can only choose one port)	
 Fault/Safety PoE STP 		
 DHCP RELAY QOS 	2 4 6 8 10 Coptional Selected (1) Apgregation (C) Trunk (E) P Source Enable Port	
Addr Table SNMP	∑oppoint marked port marked port marked port mark <u>y</u> runk <u>y</u> c produce chapter ort. Save	
SYSTEM	Port Nirror List	
	Mirror Group Source Port Destination Port Delete	

[parameter description]

parameter	description
Source port	To monitor the port in and out of flow



Destination port	Set destination port, All packets on the source port are copied and
Destination port	forwarded to the destination port
Mirror group	
Mirror group	Range :1-4

[instructions]

The port of the aggregate port can not be used as a destination port and the source port, destination port and source port can not be the same.

【Configuration example】

Such as: set a mirror group for port 3 regulatory port 4, 5, 6 on and out flow conditions.

Port Mirroring
Explain: Open port mirror feature,All packets on the source port are copied and forwarded to the des Notice: The port of the aggregate port can not be used as a destination port and the source port, de
Mirror group number(1-4) : * Please choose the source port:(Allow multiple ports to select, Too much of the source port may
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
COptional 💼 Not optional 💼 Selected CAggregation C Trunk C ip source enable po
Please choose the destination port:(Can only choose one port)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
COptional Provide Selected C Aggregation C Trunk C ip source enable po
Save edit Refresh
Port mirror list

4.2.4 Port rate-limit

In the navigation bar to select "PORT>port rate-limit ",

To port output, input speed limit, the following picture:



ome	Port Speed Limit			
uickly Set				
T				
asic Config				
ort Aggregation	33335			
ort Mirroring	2 4 6 8 10			
ort Limit	Optional 🚍 Fixed port 🚍 Selected 🕤	Aggregation S. Trunk SE IP Source Enable Port		
torm Control	Tip: Click and drag cursor over ports to sel	ect multiple ports Select all Select all others Cancel		
ort Isolation	Input Speed Limit (multiples of 16) :	* 0,16-1,000,000kb/s		
N	Output Speed Limit (multiples of	0,10-1,000,000005		
t/Safety	16) :	* 0,16-1,000,000kb/s		
	Save			
	Port Speed Limit List			
P RELAY	Ports	Input Speed Limit	Output Speed Limit	Edit
r Table IP	1	1000Mb/s	1000Mb/s	1
P TEM	2	1000Mb/s	1000Mb/s	1
I EM	3	1000Mb/s	1000Mb/s	2
	4	6.4Mb/s	3.2Mb/s	2
	5	1000Mb/s	1000Mb/s	2
	6	1000Mb/s	1000Mb/s	2
	7	1000Mb/s	1000Mb/s	1
	8	1000Mb/s	1000Mb/s	2
	9	1000Mb/s	1000Mb/s	2
	10	1000Mb/s	1000Mb/s	2
	10			

[parameter description]

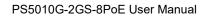
parameter	description
	Set port input speed
Input speed limit	
	Set port output speed
Output speed limit	

[instructions]

1 Mbit/s = 1000 Kbit/s = 1000 / 8 KB/s = 125 KB/s . That is, the theoretical rate of 1M bandwidth is125KB/s .

【Configuration example】

Such as: the port 5 input rate is set to 6400 KB/s, the output rate is set to 3200 KB/s.





Port speed limit
Explain: Select ports on the panel can be set on the port. In port speed limit list "_" representation of the set of the
Select ports to setting :
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
C Optional R Not optional Selected Aggregation C Trunk C ip source
Input speed limit: 6400 * 0,16-10,000,00Kb/s Output speed limit: 3200 * 0,16-10,000,00Kb/s

4.2.5 Storm control

In the navigation bar to select "**PORT>Storm control**",

To port storm control config, the following picture:

Home	Storm Control						
Quickly Set							
ORT							
Basic Config							
Port Aggregation	33330						
Port Mirroring	2 4 6 8 10						
Port Limit	Optional 🛄 Fixed port	Selected 1 Aggregation 5	Trunk [E] IP Source Enable Port				
Storm Control	Tip : Click and drag cursor of	ver ports to select multiple ports	elect all Select all others Cance	el de la companya de			
Port Isolation	Broadcast		0-262143(pps)				
LAN	Multicast		0-262143(pps)	Multicast Type: Unknown-			
ault/Safety	Unicast	Limit:	0-262143(pps)	Unicast Type: Unknown-	only 👻		
oE	Save						
TP	Storm Control List						
HCP RELAY	Ports	Broadcast Limit (pps)	Multicast Limit (pps)	Multicast Type	Unicast Limit (pps)	Unicast Type	Edit
ddr Table	1	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
NMP YSTEM	2	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
TSTEM	3	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
	4	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
	5	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
	6	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
	7	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
	8	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1
	9	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	2
	10	0 (OFF)	0 (OFF)	Unknown-only	0 (OFF)	Unknown-only	1

[parameter description]

parameter	description
Broadcast	Storm suppression value of the broadcast packets



suppression value	
Multicast suppression value	Storm suppression value of the multicast packets
Unicast suppression value	Storm suppression value of the unicast packets

[instructions]

1 Mbit/s = 1000 Kbit/s = 1000 / 8 KB/s = 125 KB/s . That is, the theoretical rate of 1M bandwidth is125KB/s .

【Configuration example】

Such as: should be forwarded to the port 1-8 of all kinds of packet forwarding rate is 5000 KB/s .

Broadcast storm		
Explain: Select ports on the panel car	n be set on the port. the C) represents disable
Select ports to setting :		
1 3 5 7 9 2 4 6 8 10 Coptional Provide Not optional 2 5	Selected 577 Aggregatio	n C7Trunk CE7ir
Broadcast suppression value:		* 0-262143Kb/s
Multicast suppression value:		* 0-262143Kb/s
Unicast suppression value:	5000	* 0-262143Kb/s
Save settings		

4.2.6 Port isolation

In the navigation bar to select "**PORT>port isolation** ", ports are isolated.the following picture:



😫 Home	Port Isolation		
SQuickly Set	Please select two or more ports		
PORT	to configure:		
 Basic Config 	1 3 5 7 9		
 Port Aggregation 			
Port Mirroring			
Port Limit	Optional 🚍 Fixed port 💼 Selected 🖸 Aggregation 🗔 Trunk 😰 IP Source Enable Port		
Storm Control	Tip : Click and drag cursor over ports to select multiple ports. Select all Select all others. Cancel		
Port Isolation	Save		
VLAN	Port Isolation List		
Fault/Safety	Port isolation List		
▶ PoE	Source Port	Isolated Port	Delete
STP			first page prev page [1] next page last page 1 / 1 page
DHCP RELAY			niet page prev page [1] next page last page.
▶ QOS			
Addr Table			

[parameter description]

parameter	description
Source port	Choose a port, to configure the isolated port
Isolated port	Port will be isolated

[instructions]

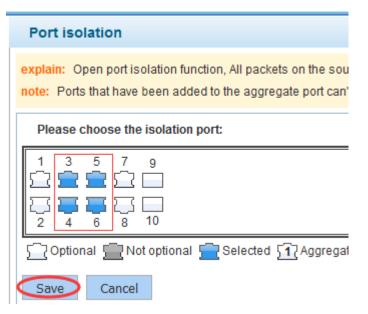
SYSTEM

Open port isolation function, All packets on the source port are not forwarded from the isolated port, the selected ports are isolated.

Ports that have been added to the aggregate port aren't also capable of being a destination port and source port, destination port and source port cannot be the same.

【Configuration example】

Such as: the port 3, 4, 5, and 6 ports isolated.





Port isolation list			
Source port	Isolated port	Opretion	
3	456	×	
4	356	×	
5	346	×	
6	345	×	
	frist page prev page [1]	next page last page 1	

4.3 VLAN

In the navigation bar to select"**VLAN**", You can manage the VLAN config, Trunk Settings and Hybrid Settings , the following picture:

VLAN s	etting	Trunk-port setting		Hybrid-port setting	
VLAN list					
	VLAN ID			VLAN name	
1 VLAN0001					
📀 New VI	O New VLAN				

4.3.1 VLAN config

In the navigation bar to select"**VLAN config**", Vlans can be created and set the port to the VLAN (port default state for the access mode), the following picture:

🛃 Home	VLAN Settings Trunk Port Settings Hybrid Port Settings					
Ruickly Set	VLANS					
▶ PORT		VLAN ID	VLAN Name	VLAN IP	Port	Edit / Delete
VLAN Vlan Config		1	VLAN0001	192.168.2.1/24	1-10	2
Fault/Safety	O New VLA	AN 🥥 Delete VLAN		first page	e prev page [1] next p	
▶ PoE						
▶ STP						
DHCP RELAY						
▶ QOS						
Addr Table						
▶ SNMP						
► SYSTEM						

parameter	description
VLAN ID	VLAN number, 8 GE default VLAN 1
VLAN name	VLAN mark
VLAN IP address	Manage switch ip address



[instructions]

Management VLAN, the default VLAN cannot be deleted. Add ports to access port, port access mode can only be a member of the VLAN.

【Configuration example】

Such as: connect switches pc1, pc2 couldn't ping each other, will be one of the PC connection port belongs to a VLAN 2 .

VLAN setting T	runk-port setting Hybrid-port setting
VLAN list	New VLAN
	AN VLAN ID(1~4094): * 1 VLAN name (1-32 character): * 2 Choose to join the VLAN port: * 1 3 5 7 9 1 3 5 7 9 1 2 4 6 8 10 1 Optional Not optional Selected fl Aggregation for the selected fl Aggregation
	save quit

4.3.2 Trunk-port setting

In the navigation bar to select"**VLAN config>trunk-port setting**", can set port to Trunk port, the following picture:

VLAN sett	ing Trunk-po	Hybrid-port setting				
explain: If a po	explain: If a port is allowed to pass through a plurality of VLAN packets, the port is set to a Trunk port. It is recommended that the port of the network device be set to the Trunk port. When the port is added to allow VLAN, VLAN must be created.					
Trunk port list	t					
port port description Native Vlan Allowing VLAN operation						
🔇 New Trunk-Port 🤤 delete selected Trunk-port frist page prev page 🚺 next page last page 1 / 1 page						

[parameter description]

parameter	description
Native VLAN	Only set one
Allowing vlan	Can set up multiple



[instructions]

Native VLAN: as a Trunk, the mouth will belong to a Native VLAN. The so-called Native VLAN, is refers to UNTAG send or receive a message on the interface, is considered belongs to the VLAN. Obviously, the interface of the default VLAN ID (PVID) in the IEEE 802.1 Q VLAN ID is the Native VLAN. At the same time, send belong to Native VLAN frame on the Trunk, must adopt UNTAG way.

Allowed VLAN list: a Trunk can transport the equipment support by default all the VLAN traffic (1-4094). But, also can by setting the permission VLAN Trunk at the mouth of the list to limit the flow of some VLAN can't through the Trunk.

【Configuration example】 Such as:PVID=VLAN2 PC1:192.168.2.122, port 8, access VLAN2 PC2:192.168.2.123, port 7, Trunk allowed VLAN 1-2 PC3:192.168.2.124, port 6, access VLAN1(The default port belongs to VLAN1) Can let the PC2 PING PC1, cannot PING PC3

VLAN s	etting Trunk-port settin	g Hybrid-port setting			
VLAN list					
	VLAN ID	VLAN name	VLAN IP address	port	operation
	1	VLAN0001	192.168.2.1	1-7,9-26	
	2	VLAN0002		8	2 🗙
🔇 New V	LAN 🤤 delete selected VLAN			frist page prev page [1] n	ext page last page 1 / 1page
1	VLAN setting	Trunk-port	setting Hybrid-po	ort setting	
	explain: If a port is allowed to pass through a plurality of VLAN packets, the port is set to a Trunk port. It is Trunk port list New Trunk-Port				a Trunk port. It is
	Trunk port list New Trunk-Port Please select port to setting:				
0	New Trunk-Port \bigcirc de 1 3 5 7 9 $\square \square \square \square$ 2 4 6 8 10				

2 4 6 8 10
Coptional 🚍 Not optional 🚍 Selected 17 Aggregation 1. Trunk
Native Vlan (1-4094). 2
Allowing VLAN(such as 3-5,8,10): 1-2
quit



4.3.3 Hybrid-port setting

In the navigation bar to select"**VLAN config>hybrid-port setting**", Can set the port to take the tag and without the tag , the following picture:

VLAN s	VLAN setting Trunk-port setting Hybrid-port setting					
explain: If a	explain: If a port is allowed to pass through a plurality of VLAN packets, and can set the packet to carry the VLAN header, the port is set to the Hybrid port.					
Hybrid por	t list					
	port	port description	Native Vlan	Add TAG VLAN	Remove TAG VLAN	operation
Item Hybrid-port Gelete selected Hybrid-port fristpage prev page [1] next page last page1 <td <="" rowspace="" td=""></td>						

[instructions]

Hybrid port to packet:

Receives a packet, judge whether there is a VLAN information: if there is no play in port PVID, exchanged and forwarding, if have, whether the Hybrid port allows the VLAN data into: if can be forwarded, or discarded (untag on port configuration is not considered, untag configuration only work when to send it a message)

Hybrid port to send packet:

1, determine the VLAN in this port attributes (disp interface can see the port to which VLAN untag, which VLAN tag)

2, if it is untag stripping VLAN information, send again, if the tag is sent directly

【Configuration example】

Such as: create vlans 10, 20, VLAN sets the Native VLAN port 1 to 10, to tag VLAN for 10, 20, sets the Native VLAN port 2 to 20, to tag VLAN for 10, 20.

VLAN s	VLAN setting Trunk-port setting Hybrid-port setting					
VLAN list	VLAN list					
	VLAN ID	VLAN name	VLAN IP address	port	operation	
	1	VLAN0001	192.168.2.1/24	1-10		
	10	VLAN0010			2 🔀	
	20	VLAN0020			2 🗙	
🗿 New VL	🔇 New VLAN 🤤 delete selected VLAN frist page prev page [1] next page last page 1 / 1 pag					



VLAN setting Trunk-port setting	Hybrid-port setting
explain: If a port is allowed to pass through a plura	lity of VLAN packets, and can set the packet to carry the VLAN hea
Hybrid port list	New Hybrid-port
port port port d New Hybrid-port delete selected Hybrid	1 3 5 7 9 1 1 3 5 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	C Optional R Not optional Selected Aggregation
	Native Vlan(1-4094): 10
	VLAN TAG (3-5,8,10): 1
	Go to VLAN's TAG (such as 3-5,8,10): 10, 20
VLAN setting Trunk-port setting Hybrid-port setting	quit settings
explain: If a port is allowed to pass through a plurality of VLAN packets, and can set the packet to carry the N	LAN header, the port is set to the Hybrid port.
Hybrid port list	
port port description Native V	
	1 10,20
2 20	1 10,20 📝 🗶

This system e0/1 and the receive system e0/2 PC can be exchanged, but when each data taken from a VLAN is different.

Data from the pc1, by inter0/1 pvid VLAN10 encapsulation VLAN10 labeled into switches, switch found system e0/2 allows 10 data through the VLAN, so the data is forwarded to the system e0/2, because the system e0/2 VLAN is untagged 10, then switches at this time to remove packet VLAN10 tag, in the form of ordinary package sent to pc2, pc1 - > p2 is VLAN10 walking at this time

Again to analyze pc2 gave pc1 package process, data from the pc2, by inter0/2 pvid VLAN20 encapsulation VLAN20 labeled into switch, switch found system e0/1 allows VLAN by 20 data, so the data is forwarded to the system e0/1, because the system e0/1 on the VLAN is untagged 20, then switches remove packets on VLAN20 tag at this time, in the form of ordinary package sent to pc1, pc2 at this time - > pc1 is VLAN 20.



4.4 Fault/Safety

In the navigation bar to select"**fault/safety**", you can set **Anti attack、Channle detection** and **ACL** configuration .

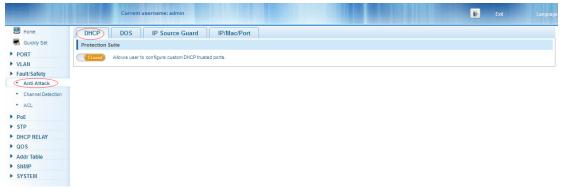
1

•	Fa	ult/Safety
	•	Anti Attack
	•	Channel Detection
	•	ACL

4.4.1 Anti attack

4.4.1.1 DHCP

In the navigation bar to select"**fault/safety>anti attack>DHCP**", Open the DHCP anti-attack function, intercepting counterfeit DHCP server and address depletion attack packets ban kangaroo DHCP server, the following picture:



[instructions]

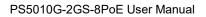
DHCP trusted port configuration, select the port as a trusted port. Prohibit DHCP for address, select the port and save, you can disable this feature for the port. Open DHCP attack prevention function, need to set the DHCP protective vlan simultaneously, other functions to take effect.

[Configuration example]

Such as:1.dhcp snooping open



2.Setting dhcp snooping vlan





DHCP Trusted Port DHCP Restricted Ports MAC Verification Option82 Binding Table Other Configuration DHCP Snooping VLAN : 1	DHCP configuration						
	DHCP Trusted Port	DHCP Restricted Ports	MAC Verification	Option82	Binding Table	Other Configuration	
	DHCP Snoopii	ng VLAN : 1	*				
(Sava)	Save	\bigcirc					

Set the connection router 8 ports for trust, then 6 port is set to the prohibit.

DHCP configuration
DHCP Trusted Port DHCP Restricted Ports MAC Verification Option82 Binding Table Other Configuration
DHCP trusted ports :
🗋 Optional 💼 Fixed port 💼 Selected 抗 Aggregation 💭 Trunk 😥 P Source Enable Port
Tip : Click and drag cursor over ports to select multiple ports Select all Select all others Cancel
Save
DHCP Trusted Port DHCP Restricted Ports MAC Verification Option82 Binding Table Other Configuration
DHCP Restricted Ports:
🖸 Optional 🚍 Fixed port 💼 Selected 🕤 Aggregation 🛄 Trunk 😰 IP Source Enable Port
Tip : Click and drag cursor over ports to select multiple ports Select all Select all others Cancel
Save

3.Verify source mac F0:DE:F1:12:98:D2, set server ip address to 192.168.2.1

DHCP configuration			
DHCP Trusted Port	DHCP Restricted Ports MAC Verification Option82	Binding Table Other Configuration	
MAC Verification MAC Ac Save MAC Verification List	Enable : ddress : F0:DE:F1:12:98:D2 *		
No.	MAC Address	State	us Delete
		first pag	ge prev page [1] next page last page 1 / 1 page
DHCP configuration			
DHCP Trusted Port	DHCP Restricted Ports MAC Verification Option82	Binding Table Other Configuration	
DHCP Snooping Save	vlan :*		
Server IP Add	dress : 192. 168. 2. 1		

4.Set option82 information

DHCP Trusted Port	DHCP Restricted Ports	MAC Verification	Option82	Binding Table	Other Configuration	
	2 Enable :					
Circuit Control	Remote Agent IP Add	Iress				
Circuit Name : VLAN ID : Save						
No.	Circuit Control Name		Circuit Control	ID	VLAN ID	Edit / Delete
					first page pre	v page [1] next page last page 1 / 1 page

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DHCP configuration					
DHCP Trusted Port	DHCP Restricted Ports	MAC Verification 0	ption82 Binding Table	Other Configuration	
	82 Enable : 🕅 82 Enable : 🕅 Remote Agent IP Ad	Iress			
Remote Name : VLAN ID : Save					
No.	Remote Agent Name	R	temote Agent ID	VLAN ID	Edit / Delete
				first page prev page [1] next page last page 1 / 1 page

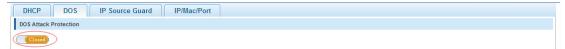
DHCP configuration						
DHCP Trusted Port	DHCP Restricted Ports	MAC Verification	Option82	Binding Table	Other Configuration	
Option82 Client Option82	2 Enable : 🔽 2 Enable : 🗹					
Circuit Control	Remote Agent IP Ade	dress				
VLAN ID :						
Save						
No.		IP Address			VLAN ID	Edit / Delete
					first page pr	rev page [1] next page last page 1 / 1 page

5. The port 7 for binding

DHCP configuration							
DHCP Trusted Port	DHCP Restricted Ports	MAC Verification	Option82	Binding Table	Other Configuration		
	Address: 00:01:15:09:37:35 VLAN ID: 1 Number: 7 ~	•					
Dhcp Snooping Bindi	ng Table						
Index	MAC Address	Port Number	VLAN ID	IP	Address	Status	Edit / Delete
					first pag	e prev page [1]	next page last page 1 / 1 page

4.4.1.2 DOS

In the navigation bar to select"**fault/safety>anti attack>DOS**", Open the anti DOS attack function, intercept Land attack packets, illegal TCP packets, to ensure that the device or server to provide normal service to legitimate users., the following picture:

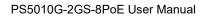


[instructions]

Open the anti DOS attack function, intercept Land attack packets, illegal TCP packets, to ensure that the device or server to provide normal service to legitimate users.

【Configuration example】

Such as: Open the anti DOS attack function





DHCP	DO	S	IP Source Guard	IP/Mac/Port
DOS Attack P	k Protectio	on		
Open	>			

4.4.1.3 IP source guard

In the navigation bar to select"**fault/safety>anti attack>ip source guard**", Through the source port security is enabled, on port forwarding the packet filter control, prevent illegal message through the port, thereby limiting the illegal use of network resources, improve the safety of the port, the following picture:

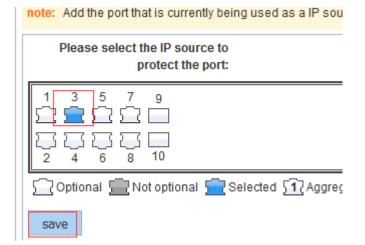
🛃 Home	Anti DHCP Attack Anti DOS OP Source Guard Anti Three Bind
🌉 Quickly Set	IP source protection port enable configuration
▶ PORT ▶ VLAN ♥ Fau <u>lt/Safety</u>	explain: Through the source port security is enabled, on port forwarding the packet filter control, prevent illegal message throug note: Add the port that is currently being used as a IP source protection enable port, the port will not be able to use.
Channel Detection	Please select the IP source to protect the port:
ACL	
MSTP DHCP RELAY	
QOSAddr Table	Selected ST Aggregation ST Trunk SE ip source enable port Tips : drag to select mu
SNMPSYSTEM	IP source protection port security configuration
	explain: Switch port security (Security Port) to filter the source MAC address.

[instructions]

Add the port that is currently being used as a IP source protection enable port, the port will not be able to use.

[Configuration example]

Such as: to open source IP protection enabled port first, then to binding.





note: Add the port that is currently being used as a IP source protection enable port, the port will not be able to use.

Please select the IP sou	
protect the	Vlan ID: 1 *
	source IP address: 192. 168. 2. 30 *
	source Mac address 00:01:16:09:35:37 *
2 4 6 8 10	1 3 5 7 9 1 3 5 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IP source protection port sec	도 Optional 🚍 Not optional 🚍 Selected 도 Aggregation 도 Trunk 도 ip so
explain: Switch port security (S index C new security por	save quit

4.4.1.4 IP/Mac/Port

In the navigation bar to select"**fault/safety>anti attack>IP/Mac/Port**", Automatically detect the port based IP address, MAC address of the mapping relationship, and then realize the function of a key binding, the following picture:

🛃 Home	DHCP DOS	IP Source Guard		
SQuickly Set	Test List			
▶ PORT	Binding Enable 🗐			
 VLAN Fault/Safety 		MAC Address	IP Address	Port Number
Anti Attack			first pag	e prev page [1] next page last page 1 / 1 page
Channel Detection ACL PoE	Scanning Binding	1		
▶ STP	Application List			
 DHCP RELAY QOS 		MAC Address	IP Address	Port Number
Addr Table SNMP	Delete		first pag	e prev page [1] next page last page 1 / 1 page
► SYSTEM				

[instructions]

A bond must be bound before the binding to enable the switch to open, And if you want to access shall be binding and switch the IP address of the same network segment.

【Configuration example】

Such as: the binding to make first can open, must be a key bindings port 7.



Binding	enable
Scanning	Binding

Binding enable 🗵

binding chabi					
	mac address	ip address	Port number		
	3C:97:0E:4F:57:F2	10.10.111	10		
	3C:97:0E:4F:57:F2	192.168.1.112	10		
	3C:97:0E:4F:57:F2	192.168.168.22	10		
	3C:97:0E:4F:57:F2	192.168.2.11	10		
	00:01:15:09:37:35	169.254.131.107	4		
frist page prev page [1] next page last page 1 / 1					

Scanning Binding

Application List			
	mac address	ip address	Port number
	3C:97:0E:4F:57:F2	192.168.2.11	10
Delete option		frist pag	e prev page [1] next page last page1 / 1page

Can check the delete option.

4.4.2 Channel detection

4.4.2.1 Ping

In the navigation bar to select"**fault/safety> channel detection>ping**", Use ping function to test internet connect and host whether to arrive. The following picture :





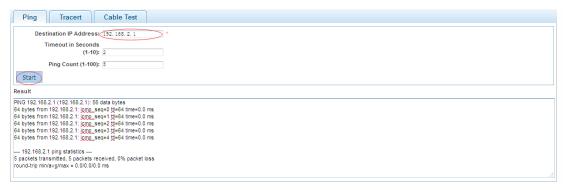
parameter	description
destination IP address	Fill in the IP address of the need to detect
Timeout period	Range of 1 to 10
Repeat number	Testing number

[instructions]

Use ping function to test internet connect and host whether to arrive.

【Configuration example】

Such as: PING connect the IP address of the PC .



4.4.2.2 Tracert

In the navigation bar to select"**fault/safety> channel detection>tracert**", Tracert detection can detect to the destination through the .following picture :

Ping Tracert Cable Test	
Destination IP Address:	
Timeout in seconds (1-10): 2	
Start	
Result	
To all	

parameter	description
destination IP address	Fill in the IP address of the need to detect
Timeout period	Range of 1 to 10

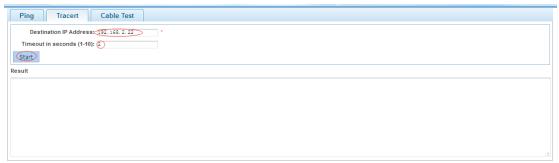
[instruction]

the function is used to detect more is up to and reach the destination path. If a destination unreachable, diagnose problems.



【Configuration example】

Such as: Tracert connect the IP address of the PC .



4.4.2.3 Cable test

In the navigation bar to select"**fault/safety> channel detection>cable test**", Can detect connection device status , the following picture:

	Current username: admin	₽	
😸 Home	Ping Tracert Cable Test		
nuickly Set	Please select port to configure:		
 PORT VLAN 			
Fault/Safety			
Anti Attack Channel Detect.	2 4 6 8 COptional Selected 517 Aggregation 5 Trunk 5€7 IP Source Enable Port		
• ACL	Copional Price port Selected ST(Appregation S-1 runk SE(P Source Enable Fort		
▶ PoE			
▶ STP			
 DHCP RELAY QOS 			
Addr Table			
▶ SNMP			
► SYSTEM			

[Configuration example]

Ping Tracert Cable Test	
Please select port to configure:	
1 3 5 7 2222	
💭 Optional 🕎 Fixed port 💼 Selected ฎ Aggregation 💭 Trunk 😰 IP Source Enable Port	
Start	

4.4.3 ACL

In the navigation bar to select"**fault/safety>ACL**", Can be applied to port ACL rules and Settings to take effect in time.



🛃 Home	Timetable ACL Apply A	ACL	
S Quickly Set	Create a	a new object 🔘 Select an existing object	
PORT	New Timetable Name:	· · · · · · · · · · · · · · · · · · ·	
VLAN	Day Selection: Monday	Tuesday Wednesday Thursday Friday Saturday Sund	day
Fault/Safety	Time Interval:	💷 - 💷 🛨	
Anti Attack	Save		
Channel Detection	Timetable List:		
• ACL	Day	Time Interval	Edit / Delete
STP	Delete Timetable List Selection		first page prev page [1] next page last page1 / 1 page
DHCP RELAY			
QOS			
Addr Table			
SNMP			
SYSTEM			

[instruction]

The ACL rules are sequenced, row in front of the match will be priority rule. Many, if the strategy items operating time is relatively longer.

Basic principles:

1, according to the order, as long as there is a meet, will not continue to find.

2, implied refused, if don't match, so must match the final implied refused entry, cisco default.

3, any only under the condition of the minimum permissions to the user can satisfy their demand.

4, don't forget to apply the ACL to the port.

【Configuration example】

such as: test time is every Monday to Friday 9 to 18 points, set port 1-6 cannot access the network .

steps: building ACL time - building ACL rules - is applied to the port .

Timetable ACL Apply AC		
Create a n	ew object 🔘 Select an existing object	
New Timetable Name:	*	
Day Selection: Monday 🔲	Tuesday 🗖 Wednesday 🔲 Thursday 🗐 Friday 🗐 Saturday 🔲 Sund	lay
Time Interval:	-	
Save		
Timetable List:		
Day	Time Interval	Edit / Delete
Delete Timetable List Selection		first page prev page [1] next page last page 1 / 1 page

first page prev page [1] next page last page 1

/ 1 page

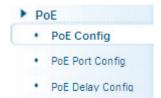


Timetable	ACL	Apply ACL					
Create ACL							
Rule list ACL lur	mber:	-					
Priority	ermiss						lame Status
Delete Selected			ACL Number: 100 Permission: Permit	*	Protocol ACL N		age last page1 / 1 page
			Permission: Permit	•	ACEN	ame:	
			Any Src IP Address:	V			
			Any Dst IP Address:	V ()			
		Save					
							-

Choose the ACL access control list for the view 100 - Rule list												
Rule order	action	Agreement	source IP/mask	source port	destination IP/mask	destination port	Object of effective time	state				
1	deny	tcp	any/any	any	any/any	80	working-time	inactive				
2	permit	ip	any/any	any	any/any	any	none	active				
delete ACL						frist pag	je prev page [1] next page	last page 1 / 1pa				
1 3 7 9 2 4 8 10 Coptional @ Fixed port @ Selected fi Aggregation finite ports Fixed port @ Select all others Cancel ACL Numberf.100 - - - Fitterring Direction: Receive message ~ -												
Access Control Li	st											
ACL NU	mber		Port		Filtering D	Direction	E	dit / Delete				

4.5 POE

In the navigation bar to select"**POE**", you can set to the **POE Config**, **POE Port Config** and **POE Delay Config** configuration.





4.5.1 POE Config

4.5.1.1 Management

In the navigation bar to select"**POE>POE Config>Management**", you can set POE configuration and status information, As follows.

	Current username: admin Ext Langu	lage
E Home	Management) Temperature Distribution POE Status Information POE Status Information	
 PORT VLAN Fault/Safety POE 	Working Status: Online Alarm Power: 128.0W Rated Total Power: 140.0W Voltage Level: 55.3V Power Output: 1.0W Voltage Level: 55.3V	
PoE Config PoE Port Config	POE Alarm Configuration Alarm Notification:	
PoE Delay Config STP DHCP RELAY	Alarm Notification: Enable Disable Save	
 QOS Addr Table SNMP 		_

[parameter description]

parameter	description
Alarm power	Configuration alarm threshold
Reserved power	Configuration reserved power
Alarm notification	Configure alert notification status

【instruction】

► SYSTEM

The actual application needs to control the system in the power change and the power of the port on whether to send a trap notification.

Receiving Trap notification required to open the Snmp, and set the trap target host.

【Configuration example】

Such as: For example: the alarm notification is set to 126W, the reserved power is 9%.

Management Temperature Distribution						
POE Status Information						
Working Status: Online	Alarm Power: 126.0W					
Rated Total Power: 140.0W	Voltage Level: 55.3V					
Power Output: 1.0W						
POE Alarm Configuration						
Alarm Notification:	0 128W					
Alarm Notification: Enable Disable 	Alarm Notification: Enable Disable					
Save						

4.5.1.2 Temperature distribution

In the navigation bar to select"**POE>POE Config>Temperature distribution**", POE chip can be set the temperature alarm threshold, As follows.



Management Temperatu	re Distribution					
Temperature Config						
Chip Temperature List						
Chip Number	Current Temperature	Alarm Threshold	Edit			
1	55°C	110°C	2			
first page prev page [1] next page last page 1 / 1 page						

parameter	description
Alarm threshold	Configuration temperature alarm threshold, range 70-149

[instruction]

Receiving Trap notification required to open the Snmp, and set the trap target host.

【Configuration example】

Such as: The 1 chip alarm threshold is set to 90°C.

Management	emperature Distribution				
Temperature Config					
Temperature Alarm		()	90°C		
Chip Temperature List					
Chip Number		Current Temperature		Alarm Threshold	Edit
1		55°C		D106	
				first page prev page [1] next page	e last page1 / 1 page

4.5.2 POE Port Config

In the navigation bar to select "**POE>POE Port Config**", you can be set to port POE, As follows.

😸 Home	POE Port List										
R Quickly Set	Port	Output Status	Status	Power Level	Current Level	Power MAX	PD Type	POE Mode	Priority	Mode Detection	Edit
PORTVLAN	1	Enabled	Enabled	1.8W	34mA	32W	3	Enabled	Low	AT&AF	2
Fault/Safety	2	Disabled	Disabled	-	-	32W	-	Enabled	Low	AT&AF	1
PoE PoE Config	3	Disabled	Disabled	-	-	32W	-	Enabled	Low	AT&AF	1
PoE Config PoE Port Config	4	Disabled	Disabled		-	32W		Enabled	Low	AT&AF	1
PoE Delay Config	5	Disabled	Disabled	-	-	32W	-	Enabled	Low	AT&AF	1
▶ STP	6	Disabled	Disabled	-	-	32W	-	Enabled	Low	AT&AF	1
DHCP RELAY QOS	7	Disabled	Disabled	-	-	32W	-	Enabled	Low	AT&AF	1
Addr Table	8	Disabled	Disabled	-	-	32W		Enabled	Low	AT&AF	1
▶ SNMP	O Multi-Port E	dit						first	page prev page	[1] next page last page	1 / 1 page
▶ SYSTEM											

parameter	description
Power MAX	Select the maximum power of the configured port
POE mode	Enable state of the selected configuration
	Configure port priority, when the load exceeds the maximum
Priority	power POE, low priority port equipment will be dropped



Mode Detection Power supply mode for configuration port detection

[instruction]

Receiving Trap notification required to open the Snmp, and set the trap target host.

【Configuration example】

Such as:The 8 port can be opened, the maximum power of 23 W, the detection mode is AF, the priority is high.

POE Port List											
Port	Output Statu		Power Level	Current Level	Power MAX	PD Type	POF Mode	Priority	Mode D X	etection	Edit
1	Enabled	POE Port Configu								&AF	1
2	Disabled		Port ID: 8						n n	&AF	
4	Disableu		POE Mode: En Port Priority: Hig							50-41	1
3	Disabled	De	tection Mode: AF							8.A.F	1
4	Disabled	Maximu	m Power (W): 23		1					&AF	1
5	Disabled	s	elected Ports						E	&AF	1
6	Disabled									&AF	1
7	Disabled									&AF	1
8	Disabled	Optional 🚍 Fix	ed port 📄 Selecte	d 1 Aggregation	Trunk					&AF	- 🖉
Multi-Port E	dit	Tin + Click and drag	ouroor ouer eede tr		Coloct of Coloct (Lothern Canaal				ge last page 1	/ 1 pag
		Save	Exit								

4.5.3 POE Delay Config

In the navigation bar to select "**POE>POE Delay Config**", you can be set to port POE, As follows.

	PoE Delay			
kly Set				
afety	3335			
	2 4 6 8			
Config		Aggregation S Trunk SE IP Source Enable Port		
Port Config	Tip : Click and drag cursor over ports to se			
Delay Config	Port Restart Time:	Days Hours	Minutes *	
RELAY	Port Delay Time:	Seconds(0-3600) *		
CLAT	Save settings			
able	PoE Delay List			
1010				
	Ports	Port Restart Time	Port Delay Time	Operation
M	Ports 1	Port Restart Time 0d0h0m	Port Delay Time Os	Operation
				Operation
	1	0d0h0m	0s	
	1 2	OdOhOm OdOhOm	0s 0s	
	1 2 3	0d0h0m 0d0h0m 0d0h0m	0s 0s 0s	
	1 2 3 4	0d0h0m 0d0h0m 0d0h0m 0d0h0m	0s 0s 0s 0s	
	1 2 3 4 5	0d0h0m 0d0h0m 0d0h0m 0d0h0m 0d0h0m	0s 0s 0s 0s 0s	
	1 2 3 4 5 6	0d0h0m 0d0h0m 0d0h0m 0d0h0m 0d0h0m 0d0h0m	0s 0s 0s 0s 0s 0s 0s	

[parameter description]

parameter	description
Port Restart Time	Set port restart limit time
Port Delay Time	Set the delay time for port POE power supply

[instruction]

Receiving Trap notification required to open the Snmp, and set the trap target host.



【Configuration example】

Such as:Set port 1 Port restart time is 3 days, the port delay time is 20 seconds.

PoE Delay			
1 3 5 7 1 3 5 7 2 4 6 8 1 Optional Pixed port So Selected Tip : Click and drag cursor over ports to s Port Restart Time: 3	도 Aggregation 도고 Trunk 도랍 IP Source Enable Port elect multiple ports bays 이 Hours 이	Minutes *	
Port Delay Time: 20	Seconds(0-3600) *		
Save settings			
PoE Delay List			
Ports	Port Restart Time	Port Delay Time	Operation
1	3d0h0m	20s	2
2	0d0h0m	0s	1
3	0d0h0m	Os	2
4	0d0h0m	Os	1
5	0d0h0m	Os	1
6	0d0h0m	Os	1
7	0d0h0m	Os	1
8	0d0h0m	0s	2
		first page prev page [1] next page	e last page 1 / 1 page

4.6 STP

In the navigation bar to select"**STP**", you can set to the **MSTP region** and **STP bridge** configuration.

•	S	ТР
	•	MSTP Region
	•	STP Bridge

4.6.1 MSTP region

In the navigation bar to select "**STP>MSTP region**", Can modify the domain and domain name, add instance is mapped to a VLAN.the following picture.

	Current username: adn	nin			
Home	MSTP Configuration				
Quickly Set PORT VLAN Fault/Safety	Region Name : 0050400 Revision Level : 0	000002 * (1 to 32 characters) * (0 to 65535,default 0)			
PoE	fety Instance Mapping				
MSTP Region STP Bridge	Instance ID : 1 VLAN ID : Save Delete	• For example : 1,3,5,7-10			
DHCP RELAY QOS	Mapping List				
Addr Table	Instance ID	Mapping VLAII	Edit		
SNMP SYSTEM	0	1-4094 first page prev page [1] next pag	e last page 1 / 1 page		



parameter	description	
Region name	Configure the region name	
Revision level	Parameter configuration revision level	
Instance ID	Select configuration instance ID	
VLAN ID	Mapping of the VLAN configuration instance	

[instruction]

An instance can only be mapped to a VLAN, instance and VLAN is a one-to-one relationship.

【Configuration example】

Such as: change the region to DEADBEEF0102, region name is 123, instance 4 is mapped to a VLAN 2, in the first need to create a VLAN 2.

Mstp Region Configuration						
Description: region configuration prompts.						
Region name Revision Level						
Save						
Instance Mapping						
Description: mapping-related tips.						
Instance ID : 4 Vian ID : 2 Save Delete	Vian ID: 2 * For example : 1,3,5,7-10					
Mapping List	Mapping List					
Instance ID	Mapping Vlan					
0	1-4094					

4.6.2 STP bridge

In the navigation bar to select"**STP>STP bridge**", Can be related to bridge, port configuration, the following picture:



STP Bridge Config	
ky Set Instance Priority:	Priority: [22768]
afety Enable : ON OFF Hello Time : 2 Forward Delay : 10 Save Show Bridge Info	Mode : Image: StP Image: StP Image: Maximum stress (1-10s) MAX Age : Io * (6-40s) (4-30s) MAX Hops : Io * (1-40)
STP port config	
Instance : 0	Priority: 128 * (0-240,step 16) Path Cost: auto * (auto or 1-20000000) Point to Point: © N © FF Compatibility Roof G&Mert? ® Rbfc is Roof G&Mert? © Rbfc is @ CFF Tc Ignore : © N ® OFF
1 3 5 7 9 2 4 5 7 0 2 4 5 8 10 Coptional ■ Fixed port ■ Selected ∑ Save Show Current Port	ggregation 💬 Trunk 🞉 P Source Enable Port

parameter	description	
inst-priority	Whether open instance priority setting	
Instance ID	Select the created instance id is configured	
enable	Whether to open the STP bridge function	
Bridgo priority	Priority setting bridge example, the default	
Bridge priority	instance bridge priority for 32768	
mode	The model is divided into: the STP, RSTP, MSTP	
Hello-time	Switches sends bpdus in packet interval	
Max aga	Ports are not yet received a message in the time,	
Max-age	will initiate topology changes	
Forward-delay	The state of the port switch time	
Port-priority	Set port instance priority, defaults to 128, you must	
Port-priority	enter multiple of 16, the range of 0-240	
Path-cost	Configure port costs	
Port-fast	Select configuration state	
Auto-ege	Select configuration state	
Point-to-point	Select configuration state	
Bpdu guard	Select configuration state	
Bpdu filter	Select configuration state	
compatible	Select configuration state	
Root guard	Select configuration state	
TC guard	Select configuration state	
TC filter	Select configuration state	

[instruction]

(1) (hello_time+1)×2<=max_age<=(f_delay-1)×2 , enable the switch to set instance priority.

(2) Enable STP or switch mode would spend 2 times of the forward delay time.



【Configuration example】

Such as:1)Open the STP, configuration has to create an instance of the priority, configuration time parameters, set the pattern to MSTP.

[_				
	inst :	4		•		priority: 128 * (0-240,step 1
	port-fast :	0	off (🖲 on		path-cost: auto * (auto or 1-20)
	auto-edge:	0	off (on (point-to-point: 🔘 off 🔘 on 🔘 auto
	bpdu-guard :	0	off (on		compatible : off on
	bpdu-filter :	0	off (🔍 on		rootguard: 💿 none 🔘 root
	tc-guard :	0	off (🔍 on		tc-ignore: 🔘 off 🔘 on
		7 9] [] [] [] [] [] [] [0			
)(Optional)(Not o	ption	al 📃	Select	ed 🚹 Aggregation 🗔 Trunk 😰 ip source enable port
	save show o	currei	nt por	t		
	Mstp Port Confi					Mstp Port Information [Gi0/4]
1	Tips: Config ms ins port-fas	t: (0) of	ff 🎯	↓ on	PortAdminPortFast: enable PortOperPortFast: disable PortAdminAutoEdge: enable PortOperAutoEdge: disable PortAdminLinkType: auto PortOperLinkType: point-to-point PortBPDUGuard: enable PortBPDUFilter: disable
	auto-edge	9: (of	ff 🍥	on	PortTCGuard: disable
	bpdu-guard	1: (of (ff 🍥	on	instance[0]
	bpdu-filte	r: (of	ff 🔘	on	VlanMap: 2-4094 PortState: down
	tc-guard	1: (of	ff O	on	PortPriority: 128 PortDesignatedRoot: 32768 - 40:97:0e:4f:57:55
	1 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 20 8	9 10]] otional		PortDesignatedCost: 0 PortDesignatedCost: 0 PortDesignatedBridge: 32768 - 40:97:0e:4f:57:55 PortDesignatedPortPriority: 128 PortDesignatedPort: 4 PortAdminPathCost: auto PortOperPathCost: 5000000 PortRole: disabled
	save cho	w cu	rrent	t pop		quit

2) Set MSTP has launched port configuration, select the created instance, set priority (port configuration is not online, on-line configuration will only take effect, can click on the "view the current configuration" button to view the configured completed)



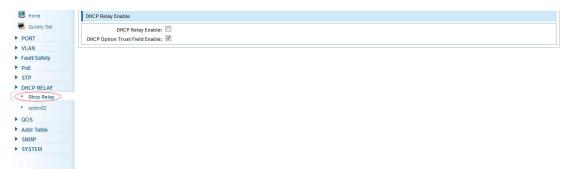
4.7 DHCP relay

In the navigation bar to select"DHCP relay", you can set to the DHCP relay and option82.

•	DHCP RELAY			
	•	Dhcp Relay		
	•	option82		

4.7.1 DHCP relay

In the navigation bar to select"**DHCP relay**", Open the DHCP relay function, set up and view the relay server IP address and its status.the following picture.



[parameter description]

parameter	description
IP address	DHCP server address
status	Invalid and vaild

[instruction]

If open the function of relay agent, then receives the broadcast DHCP message, to be delivered in the form of unicast to configure on the server. The DHCP server to IP and switches in the same network segment will only take effect.

[Configuration example]

Such as:setting DHCP server ip for 192.168.2.22



DHCP relay enable state	HCP relay enable state						
Explain: Open the DHCP relay	function, set up and view the relay server IP address and its status.						
	DHCP relay enable: 📝						
DHCP relay config							
Explain: DHCP relay server IP a	address config.						
DHCP server II Add Delete	P(192.166.2.22 *						
Serial number	Serial number IP address Status Opretion						
1 0.0.0.0 invalid							
	frist page prev page [1] next page 1 .						

4.7.2 0ption82

In the navigation bar to select"**DHCP relay>option82**", can set to OPTION82circuit control、proxy remote 、 ip address.the following picture:

🛃 Home	Option82 Config				
S Quickly Set		Proxy Remote IP Address			
PORT		in radiooo			
VLAN	Circuit Control:	•			
Fault/Safety	VLAN ID :				
PoE	Save				
STP					
DHCP RELAY	Number	Circuit Name	Circuit ID	VLAN ID	Edit / Delete
Dhop Relay				first page prev page [1] ne	ext page last page 1 / 1 page
option82					
QOS					
Addr Table					
SNMP					

[parameter description]

· · ·	
parameter	description
VLAN id	the DHCP request message in the VLAN, value range is 1 \sim
	4094
Circuit control	Circuit ID to populate the user custom content, scope of
	string length is $3 \sim 63$
Proxy remote	Configuration ASCII remote id string value, the length of the
	range of 1 ~ 63
IP address	Decimal IP address

[instruction]

► SYSTEM

Switches, relay information to the DHCP server will take option82, VLAN ID must be configured to DHCP message taken VLAN can bring option82 information.

【Configuration example】

Sach as:add circuit control, proxy remote, ip address information.



Circuit control	Proxy remote IF	P address		
Circuit control: 123	*		VLAN ID	×
Serial number	Circu	uit control name		Circuit control ID
Proxy remote: In genera	al, an access layer switch fo	r the MAC informatio	n is inserted into the option82.	
Circuit control	Proxy remote IP a	address		
Proxy remote: swet	*		VLAN (D: 1	*
Serial number	Ргоху	remote name		Proxy remote ID
Circuit control	Proxy remote	IP address		
IP address:	22. 168. 2. 35 *		VLAN ID : 1	*
Serial number			IP addres	35

4.8 QoS

In the navigation bar to select"QoS", you can set to the queue config and mapping the queue.



4.8.1 Queue config

In the navigation bar to select" **QoS>queue config**", Can be set up queue scheduling policy .the following picture:



😸 Home	Queue setting
Quickly Set	Queue mode: SP •
PORT	Apply
VLAN	
Fault/Safety	
▶ PoE	
MSTP	
DHCP RELAY	
▶ QOS	
Queue Config	
Mapping the Queue	
Addr Table	
SNMP	
SYSTEM	

parameter	description
	Can choose four kinds of modes:
	RR round-robin scheduling
	SP absolute priority scheduling
	WRR weighted round-robin scheduling
Scheduling strategy	WFQ weighted fair scheduling
	Set the weights of each queue, they will be in proportion to occupy
WRR-weights	the bandwidth to send data

[instruction]

Queue 7 can not for 0.

【Configuration example】

Such as: set the scheduling strategy for WRR, weight value respectively, 10, 11, 12, 12, 14, 15, 16, 17.

Queue setting	
Scheduling strategy: Byte weight(0~127):	

4.8.2 Mapping the queue

4.8.2.1 Service class queue mapping

In the navigation bar to select"QoS>mapping the queue", Service category can be



mapped to the corresponding queue.the following picture.

		•		•	•				• •		
🛃 Home	Cos-Que	ue-Map	6	SCP-Co	S-Map	Po	ort-CoS-I	Иар			
Quickly Set	Mapping que	lapping queue status information									
▶ PORT											
▶ VLAN	Server ID	0	1	2	3	4	5	6	7		
Fault/Safety	Queue ID	0 •	1 🔻	2 🔻	3 🔻	4 🔻	5 🔻	6 🔻	7 🔻		
▶ PoE	Save										
▶ MSTP	Gave										
DHCP RELAY											
▶ QOS											
Queue Config											
Mapping the Qu											
Addr Table											
▶ SNMP											
► SYSTEM											

[parameter description]

parameter	description
Server ID	COS the VLAN priority fields (0 to 7)
Queue ID	Set each cosine value mapping queue number (0 to 7)

【Configuration example】

Such as: cos 3 mapping to the queue 7, set the queue weight 7 to 10.

Service cla	ss to queu	e mapping	Di	fferential se	ervice to se	ervice class	s mapping	Port	to service class mappin	g
Mapping queue	status inform	nation								
server ID	0	1	2	3	4	5	6	7		
queue ID	0 🗸	1 🗸	2 🗸	7 -	4 👻	5 🗸	6 🗸	7 🗸		
save						·	·	·		
Queue se	etting									
Apply		ıling str veight(0			0	•	0	0	0 10	

4.8.2.2 Differential service class mapping

In the navigation bar to select"QoS>mapping the queue>differential service class mapping", Differential service can be mapped to the corresponding service categories.the following picture:



ifferential se	rvice cod	le point n	napping	team list												
server ID	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
erver list 1	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸
server ID	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
erver list 2	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸
server ID	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
erver list 3	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸
server ID	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
erver list 4	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸

parameter	description
Server list	DSCP field has seven (0-63) is divided into four tables
	Map the DSCP to COS fields (0 to 7), based on the cosine is
Queue ID	mapped to a queue

[instruction]

Cos priority is greater than the DSCP, DSCP priority is greater than the port.

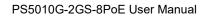
【Configuration example】

Such as: the DSCP value of 3, 12, 23 mapping to cos 5 .

Service cl	ass to c	queue r	nappin	g	Differ	ential s	ervice	to serv	ice cla	ss mapp	ping	Po	rt to se	rvice cl	lass ma	pping
Differential se	ifferential service code point mapping team list															
server ID	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
server list 1	0 🗸	0 🗸	0 🗸	5 -	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	5 🗸	0 🗸	0 🗸
server ID	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
server list 2	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	5 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸
server ID	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
server list 3	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸
server ID	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
server list 4	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸	0 🗸
save																

4.8.2.3 Port to service class mapping

In the navigation bar to select"QoS>mapping the queue>port to service class mapping", Port can be mapped to the corresponding service categories.the following picture:





Service class to queue mapping	Differential servi	ice to service class	mapping Port	to service class ma	pping					
port COS mapping										
port: 1 server ID: 0	v									
control list										
port server ID										
	0	1	2	3	4	5	6	7		
1	т									
2	т									
3	т									
4	т									
5	Т									
6	т									
7	т									
8	т									
						frist page prev page ['] [2] [3] [4] next page las	t page 1 / 4pag		

parameter	description		
Port	Select the port number (1-10)		
	Mapped to the service ID, and then according to the service ID		
Service ID	into the queue		

[instruction]

Cos priority is greater than the DSCP, DSCP priority is greater than the port.

【Configuration example】

Such as:port 4, 5, 6 respectively $\cos 4$, $\cos 5$, $\cos 6$.

port COS mapping	1	
	port: 4 server ID: 4	•
apply		
port COS mapping		
	port: 5 server ID: 5	• •
apply		



port COS mapping	
apply	port: 6 v server ID: 6 v

control list	ontrol list							
port	server ID							
	0	1	2	3	4	5	6	
1	Т							
2	T							
3	т							
4					Ţ			
5								
6							Ţ	
7	т							
8	т							

4.9 Address table

In the navigation bar to select"Address table", you can set to MAC add and delete. MACstudy and aging and MAC address filtering.

Mac add and delete	Mac study an	d Ageing	Mac address filtering
	NAC: Clear ap Vlan: 1 dress :	point Mac a 👻	(14094)

4.9.1 Mac add and delete

In the navigation bar to select"Address table>Mac add and delete", You can add static Mac and delete Mac and view to the current of the Mac address table.the following picture:



🛃 Home					
	Address Table Config				
Ruickly Set	MAC Management	MAC Learning and Aging MAC	Filter		
 PORT VLAN Fault/Safey PoE STP DHCP RELAY QOS Addr Table Address Table SNIAP SYSTEM 	MAC Ad	dress: Selected (↑ Aggregation (Trunk VLAH: 1 Vaid Ra	nge (1 to 4094)		
	Save				
	MAC Addres	ss List: All 👻			
	Number	MAC Address	VLAN ID	Address Type	Port

parameter	description
	Can choose to clear the multicast Mac address, clear dynamic
	unicast Mac address, clear static unicast Mac address, clear the
Clear Mac	specified Mac address, Mac address table
	Fill in the need to add or delete VLAN id, not create vlans to
VLAN	create can only take effect

[instruction]

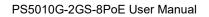
According to different conditions to clear Mac address, view/add/learn the Mac address, Mac address filtering.

【Configuration example】

Such as: 1) the port 6 Mac set to static Mac.

COptional PNot optional Collected Aggregation C Trunk			
Vlan:	1	(14094)	
Mac address :	3C:97:0E:4F:57:F2		
save			

2)clear port 6 static Mac addresses.





Address Table Config		
explain: Clear the MAC add	dress under different conditior	ns, view / add / learn MAC addr
Mac add and delete	Mac study and aging	Mac address filtering
	clear MAC: Clear appoint Ma Vlan: 1 c address : 3C:97:0E:4F:57:1	(14094)

4.9.2 Mac study and laging

In the navigation bar to select"**address table>Mac study and laging**", Can be set up port Mac address study limit and Mac address aging time . the following picture:

Address Table Config
explain: Clear the MAC address under different conditions, view / add / learn MAC address, MAC address filtering.
Mac add and delete Mac study and aging Mac address filtering
C Optional R Not optional Selected Aggregation C Trunk Tips : drag to select multiple ports
Mac address study limit: 8191 (0 indicates not limit ,0-8191)
save
Mac address Aging time: 300 (0 indicates not aging, 10-1000000 second)
save

[parameter description]

parameter	description	
Mac address	Range 0-8191, default 8191	
Mac address study		
limit	Default 300	

【Configuration example】

Such as: 1) setting port 2, 3, 4, 5 address study limit for 2000 .



2) will be dropped or learn the Mac address of the port equipment after 2 minutes disappear automatically from the Mac address table

Suve		
Mac address Aging time:	120	(0 indicates not aging, 10-1000000 second)

4.9.3 Mac address filtering

In the navigation bar to select"**address table>Mac address table**", Can be filtered according to the condition does not need the Mac address. the following picture:

Address Table Config					
explain: Clear the MAC address und	ler different conditions, view / add / learn MAC address, M	AC address filtering.			
Mac add and delete Mac	study and Ageing Mac address filtering				
Mac address: Vlan: save delete	(1-4094)				
serial number	MAC address	VLAN ID	address type	port	Aggregation group
				frist page prev page [1] next	page last page 1 / 1page

[parameter description]

parameter	description
Mac address	Can not add multicast Mac address
VLAN	VLAN number

【Configuration example】

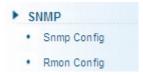
Such as: the Mac address for 00:20:15:09:12:12 added to the filter in the table.



Mac add and delete	Mac study and Ageing	Mac address filtering	
Mac a	ddress: 00:20:15:09:12:12 Vlan: 1	(14094)	
serial number	МА	C address	

4.10 SNMP

In the navigation bar to select"SNMP", you can set to the Snmp config and Rmon config.



4.10.1 Snmp config

4.10.1.1 Snmp config

In the navigation bar to select"**Snmp >Snmp config**", you can Snmp function enable.the following picture:



[instruction]

The SNMP function must be turned on in the configuration RMON, otherwise it will be configured to fail.

Configuration exam	ple 】
--------------------	-------

Such as: open Snmp.



SNMP Config	Community Config	Group Config	User Config	Trap Config	View Config
SNMP config					
note: The SNMP function	n must be turned on in the configu	uration RMON, otherwise it	will be configured to fail.		
Open					

4.10.1.2 Community config

In the navigation bar to select"**Snmp >Snmp config>community config**", Can specify group access. the following picture.

SNMP Config	Community Config Group Config User Config Trap Config View Config				
SNMP group list					
note: The upper limit	t of the number of groups is 8				
	Group name access authority				
📀 new group 🤤 delete select group					

[parameter description]

parameter	description
	Community string, is equal to the NMS and Snmp agent
group	communication between the password
	Read-only: specify the NMS (Snmp host) of MIB variables can only be read, cannot be modified
	Read-only can write: specify the NMS (Snmp host) of MIB
Access authority	variables can only read, can also be modified

[instruction]

The upper limit of the number of groups is 8.

【Configuration example】

Such as: add a read-write group called public...

SNMP Config Community Config	Group Config User Config Trap Config View Config
SNMP group list	
note: The upper limit of the number of groups is 8	SNMP group configuration
Group nar	Group name : [public * string legth[1-16] access authority Read Write •



4.10.1.3 View config

In the navigation bar to select"**Snmp >Snmp config>view config**", Set the view the rules to allow or disable access to some of the MIB object. the following picture.

SNMP Config	Community C	Config Group Con	fig User Config	Trap Config	View Config		
view list							
explain: Each view is b	est to configure a viev	w rule, otherwise it will affect th	e SNMP function.				
view name	:	* string length[1-16]					
New view							
View rule list	. d	delete view					
	rule		MIB subtree OID			subtree mask	
🔘 New view rule 🤤	Delete select View	rule					frist page prev pa

[parameter description]

parameter	description
View name	Wiew mane
include	Indicate the MIB object number contained within the view
exclude	Indicate the MIB object son number was left out of view
MIB subtree OID	View the associated MIB object, is a number of MIB
subtree mask	MIB OID mask

[instruction]

Each view is best to configure a view rule, otherwise it will affect the SNMP function.

【Configuration example】

such as: establish a view 123, MIB subtree oid .1.3.6.1 contain among them.

view list	
explain: Each view is best to configure a view rule, otherwise it will affect the SNMP function.	
view name 123 * string length[1-16]	
SNMP Config Community Config Group Config User Config Trap Config View Config view list View Config View Config <td< th=""><th></th></td<>	
explain: Each view is best to configure a view rule, otherwise it will effect the Shittle Function edit view rule	×
view name * string length[New view * string length[View rule list 123 • cfc view View rule list 123 • cfc view • option • string length[1-128] • New view rule • String length[1-31]	
save quit	



4.10.1.4 Group config

In the navigation bar to select"**Snmp>Snmp config>group config**", setting Snmp group.the following picture.

SNMP Co	onfig Community Config	g Group Config U	ser Config Trap Config	View Config		
SNMP grou	up					
note: The nu	mber of groups configured is 8					
	group name	security level	read view	read and write view	notify view	operation
📀 new grou	up 🤤 delete select group				frist page prev page [1] next pag	ge last page 1 / 1page

parameter	description
Group name	Group name
	Attestation not only encryption: this group of users
	transmission of the message need to verify the data don't need
	to confidential
	No authentication encryption: this group of users' messages
	don't need to verify data transmission also does not need to be
	kept secret
	Both authentication and encryption: this group of users need to
	verify the news of transmission and transmission of data need
Security level	to be kept secret
Read view、read and	The associated view name
write view 、 study	
view	

[parameter description]

[instruction]

Before the cap on the number set of configuration of 8, the new group needs a new view to create a group.

【Configuration example】

Such as: firstly, new view 123, then new group of goup1.

View rule	View rule list 123 delete view						
	rule	MIB subtree OID	subtree mask	operation			
	📄 included .1.3.6.1						
🔇 New vie	🔇 New view rule 🤤 Delete select View rule frist page prev page [1] next page last page 1						



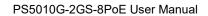
SNMP C	Config	Config	Group Config	User Config	Trap Config	View Config	
SNMP gro	pup						
note: The n	umber of groups configured is		new group				x
	group name		group name:	group1	* string legth[1-16]		
	123		Security level :	Authentication and n 🗸			
	group		read view : read and write				
🕕 new gro	oup) 🥥 delete select group		view : notify view :	none 🗸			
			save	quit			

4.10.1.5 User config

In the navigation bar to select"**Snmp>Snmp config>user config**", setting Snmp user.the following picture:

SNMP Cont	fig Community Config	Group Config	User Config Tr	ap Config View Config		
SNMP user						
note: The numb	er of groups configured is 8					
	user name	security level	group name	Authentication mode	encrypt mode	operation
🗿 new user 🤤 delete select user frist page prev page [1] next page last page 1 / 1 pp					e last page 1 / 1page	

parameter description User name, range 1-16 User name Attestation not only encryption: this group of users transmission of the message need to verify the data don't need to confidential No authentication encryption: this group of users' messages don't need to verify data transmission also does not need to be kept secret Both authentication and encryption: this group of users need to verify the news of transmission and transmission of data need Security level to be kept secret SHA Specified use MD5 authentication protocol or Authentication mode authentication protocol Authentication Range 8-10 password Specified using AES encryption protocol or DES encryption encrypt mode protocol Group name A user group name





encrypt password Range 8-60

[instruction]

Cap on the number configuration of 8, users need a new view and group to use, the user's security level must be consistent with the group level of security. Add a user authentication and encryption, and configure belong to groups of users, the user will be used for Snmpv3 connection.

【Configuration example】

Such as: new view 123, the newly built group group1, new users user1 .

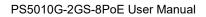
SNMP Config Community Config	Group Config User Config Trap Config View Config	
SNMP user		
note: The number of groups configured is 8	edit SNMP user	×
user name sectors of the sectors	user name : user1 * string legth[1-16]	^
	Security level: Authentication and n - group name: group 1 - Authentication mode: MD5 - Authentication password 12345678 * string legth[8-60] Confirm Authentication password 12345678 *	E
	Encrypted password	•

4.10.1.6 Trap

In the navigation bar to select"**Snmp>Snmp config>Trap**", Can specify sent the trap messages to Snmp host (NMS). the following picture:

SNMP Config	Community Config	Group Config User Config	Trap Config	View Config		
Trap destination	nj host					
note: The number of	of groups configured is 8					
	destination IP address	address type	security name	UDP port number	security mode	operation
📀 <u>new Trap</u> 🤤	delete select Trap				frist page prev page [1] next page 1	ast page 1 / 1page

parameter	description
Destination ip	Snmp host ipv4 address
address	
Security name	Snmp user name
version	V1、V2、V3
	Specified using AES encryption protocol or DES encryption
Security mode	protocol





Group name User group name

[instruction]

The Trap cap on the number configuration of 8, you can configure a number of different Snmp Trap host used to receive messages. Trigger the trap message time: port Linkup/LinkDown, equipment of cold - start (restart when power supply drop)/warm - start (a warm restart), and Rmon set port port statistical fluctuation threshold.

【Configuration example】

Such as:setting hoset 192.168.2.30 receive trap information.

SNMP Config Community Config Grou	p Config User Config Trap Config View Config
Trap destinationj host	
	Тгар
new Trap defete select Trap	destination IP address : 192.168.2.30 • address type : [P ∨4 • ecurity name : [user1 • P port number : [162 • ecurity mode : √1 •
	save quit

4.10.2 Rmon config

4.10.2.1 Statistics group

In the navigation bar to select"**Snmp>Rmon config>**statistics group", Set an Ethernet interface statistics .the following picture:

Home	Statistics Group	History Group	Alarm Group	Event Group		
Quickly Set	Statistics Group List	11				
DRT		Index	In	terface Name	Owner	Edit / Delete
LAN	New Count Group	Delete Selected Count	t Group		first	page prev page [1] next page last page1 / 1
ult/Safety DE						
p						
CP RELAY						
S						
Ir Table						
AP Somp Config						
mon Config						
TEM						

parameter description		
		L description



index	The index number, the value range of statistical information
	table is 1 ~ 65535
Interface mane	To monitor the source port
ower	Set the table creator, range: $1 \sim 30$ characters of a string

[instruction]

At the time of configuration Rmon Snmp functions must be open, otherwise the prompt dialog box will appear.

[Configuration example]

Such as: set up monitoring Ethernet port after 4 to check the data.

Statistics Group History Group	Alarm Group Event Group	
count group list		
index	statistical group configuration	owner etatue
Contraction of the select count group of the	index 77 • [1-65535] interface name owner cocol • string length[1-30]	
Statistics Group History Group Alar	m Group Event Group	
count group list		
✓ index	interface name owner status	operation
77	Statistical information	
new count group delete select count group	Number of Packet Discarding Events : 0 Number of Received Bytes : 989395 Number of Received Packets :L 9813 Number of Received Broadcasting Packets : 4164 Number of Received Multicast Packets : 5222	st page prev page [1] next page [
	Number of Received Packets With CRC Check Failed : 0 Number of Received Packets Smaller Than 64 Bytes : 312 Number of Received Packets Larger Than 1518	
	quit	

4.10.2.2 History group

In the navigation bar to select"**Snmp>Rmon config>history group**", Record the history of an Ethernet interface information. the following picture.

<u>Statis</u>	tics Group	History Group Alarm	Group Event Group				
history <u>g</u>	roup list						
	index	interface name	maximum number of samples	sample period	owner	status	operation
📀 new	history group	elete select history group			frist page prev pa	ige <mark>[1]</mark> next page la	ast page 1 / 1page



parameter	description
index	Historical control table item index number, value range is 1 \sim
	65535
Interface name	To record the Ethernet interface
Maximum number of	Set the history control table item of the corresponding table
samples	capacity, namely the Max for number of records the history
	table, value range is 1 ~ 65535
Sample period	Set up the statistical period, scope for $5 \sim 3600$, the unit is in
	seconds
owner	Set the table creator, range: 1 ~ 30 characters of a string

[instruction]

At the time of configuration Rmon Snmp functions must be open, otherwise the prompt dialog box will appear.

【Configuration example】

Such as: monitor Ethernet port 4 historical information.

Statistics Group History Group Alarm	Group Event Group	
history group list		
index interface name	history group configuration	sample period
	index: 222 • [1-65535] interface name: interface Gi0/4 • •	E
	Maximum number of samples: 22222 * [1-65535] sample period 23 * second	
	(save) quit	

4.10.2.3 Event group

In the navigation bar to select"**Snmp >Rmon config>event group**", The way in which define events trigger and record them. the following picture.

Statistics Grou	IP History Group	Alarm Group				
event group list						
	index	description	owner	action	status	operation
🔘 new event group	o 🤤 delete select event gr	roup			frist page prev pa	age [1] next page last page 1 / 1page

parameter	description
index	The index number, the value range of the event table is 1 \sim
	65535
description	The Trap events, when the event is triggered, the system will



	send the Trap message
	Log events, when the event is triggered, the system will log
owner	Set the table creator, ownername for 1 ~ 30 characters of a
	string

[instruction]

At the time of configuration Rmon Snmp functions must be open, otherwise the prompt dialog box will appear.

[Configuration example]

Such as: create an event to trigger 345, the system sends the trap message and log .

Statistics Group	History Group	Alarm Group	Event	Group			
event group list							
	index delete select event group	event gr	oup config	uration	owner	action	x list
new event group	delete select event group	de	index: 345 scription 212 owner: Cocc action: 1	.og 🗹 Trap	* [1-65535] * string length[1-30] * string length[1-30]		ist

4.10.2.4 Alarm group

In the navigation bar to select" **Snmp>Rmon config>alarm group**", define alarm group.the following picture.

Statistic	cs Group	History Grou	up Alarm Gr	oup	Event Group					
alarm grou	ıp list									
note: Config	gure the ala	rm group before you con	figure the statistics an	d event groups						
🔲 index	static table	Statistical group index	sampling time interval	sample type	Last sample value	the alarm threshold limit	events that exceed the threshold limit	alarm threshold limit	events below the threshold limit	ower status operation
🔘 new ala	ırm group	🤤 delete select alarm	l group					frist	page prev page [1] next page	ast page 1 / 1page

<u>/</u> /			
parameter	description		
index	The alarm list items	index number, val	ue range is 1 ~ 65535
Static table	Statistical type va	alues :3:DropEver	nts. 4:Octets. 5:Pkts.
	6:BroadcastPkts.	7:MulticastPkts.	8:CRCAlignErrors.
	9:UndersizePkts.	10:OversizePk	ts. 11:Fragments.
	12:Jabbers.	12:Collisions.	14:Pkts64Octets.
	15:Pkts65to127Oct	ets. 1	6:Pkts128to255Octets.
	17:Pkts256to511Oc	tets. 18	:Pkts512to1023Octets.



	19:Pkts1024to1518Octets				
statistical index	Set up the corresponding statistics statistical index number,				
	decided to statistics to monitor the port number				
Sampling interval	Sampling time interval, the scope for 5 ~ 65535, the unit for				
	seconds				
The sampling type	Sample types for the absolute value of sampling, the				
	sampling time arrived directly extracting the value of a				
	variable				
The latest sampling	Sampling type for change value sampling, extraction of the				
	arrival of the sampling time is variable in the change of the				
	sampling interval value				
The alarm threshold	Set the upper limit the parameter values				
upper limit					
The alarm threshold	Set the lower limit parameter values				
lower limit					
Above/below the	Upper/lower limit reached, for each event				
threshold limit of					
events					
owner	Set the table creator, ownername for $1 \sim 30$ characters of a				
	string				

[instruction]

At the time of configuration Rmon Snmp functions must be open, otherwise the prompt dialog box will appear. This configuration need to configure statistics groups and events.

[Configuration example]

Such as: new statistics group of 77 and the event group 345, set up more than 12 and below the lower limit 3, Beyond the scope of alarm .

Statistics Group History Group	Alarm Group Event	Group			
alarm group list					
static Statistical group	statistics and event arouns statistical group configura	ation			×
index table index in	index:	123	* [1-65535]		
onew alarm group of delete select alarm group	Static table:	DropEvents			•
	Statistical group index:				
	Sampling time interval:		* second		
	Sample type:				
	ower:		* string length[1-30]	l	
	The alarm threshold limit:		* [0-2147483647]		
	Events that exceed the threshold limit:				
	Alarm threshold limit:	3	* [0-2147483647]		
	Events below the threshold				
	limit:	345 🗸			
	save quit				



4.11 SYSTEM

In the navigation bar to select"SYSTEM", you can set to the system config、 system update、 config management、 config save、 administor privileges and info collect.

SYSTEM					
•	System Config				
•	System Update				
•	Config Management				
•	Config Save				
•	Administrator Pri				
•	Info Collect				

4.11.1 System config

4.11.1.1 System settings

In the navigation bar to select"**SYSTEM>system config>System settings**", Basic information set switch. the following picture:

Quickly Set	Basic System Information		
▶ PORT	Management VLAN: 1		
▶ VLAN			
Fault/Safety	Management IP: 192. 168. 1. 254 * Ipv6 Address :		
▶ PoE	Subnet Mask: 255. 255. 255. 0 * Device Name: Switch		
▶ STP	Default Gateway: 0.0.0.0 Device Location:		
DHCP RELAY	Jumbo Frame : 1518 (1518-9216) Contacts(include		
▶ QOS	DNS Server: 0.0.0.0 mailbox):		
Addr Table	Login		
► SNMP	Timeout(Minutes): 30		
► SYSTEM	Save Set Management VLAN		
System Config	System Time		
System Update			
Config Managem	Current System Time: 2000-01-01 01:03:27		
Config Save	Set Time:		
Administrator Priv	NTP Server		
	Sntp Server IP:		
 Info Collect 	Daylight saving time: Disabled •		
	Time Zone: (GMT+08:00) Beijing, Hong Kong 🔻		
	Save		

parameter	description
Device name	switch name
Manage VLAN	Switches use VLAN management
Manage ip	Switch IP address management
timeout	Don't use more than login timeout after login to log in again



4.11.1.2 System restart

In the navigation bar to select"**SYSTEM>system config>system restart**", equipment can be restarted. the following picture:

🛃 Home	System settings System restart Password change Ssh login Telnet login System log
🛃 Quickly Set	Note: Click the button to restart the switch. The restart process may take 1 minute. Please wait patiently. The page will be refreshed automatically after
PORT	
VLAN	Restart
Fault/Safety	
MSTP	
DHCP RELAY	
QOS	
Addr Table	
SNMP	
SYSTEM	
System Config	
System Update	
Config Managem	

[instruction]

Click the button to restart the switch. The restart process may take 1 minute. Please wait patiently. The page will be refreshed automatically after device restart.

[Configuration example]

Such as:click"restart"button.

	Sys	tem settings	System restart	Password change	
	Note:	Click the button to re	start the switch.The restart	process may take 1 minute. Ple	
(Restart				

4.11.1.3 Password change

In the navigation bar to select"**SYSTEM>system config>password change**", The password change to equipment. the following picture:



🛃 Home	System settings System restart Password change ssh login Telnet login System log
🌉 Quickly Set	change root user password
▶ PORT	Tip: 1. If you set a new Web login password, then log in again after seting the new password. 2. Password can not contain Chinese, full-width characters, quest
▶ VLAN	
Fault/Safety	Old password:
▶ MSTP	New password:
DHCP RELAY	Password again: ••••
▶ QOS	Save Clear
Addr Table	
▶ SNMP	
▼ SYSTEM	
System Config	
System Update	

1. If you set a new Web login password, then log in again after seting the new password.

2. Password can not contain Chinese, full-width characters, question marks and spaces.

3.If forget the password reset, can be reset in the console.

switch(config)# password admin

New Password:3456

Confirm Password:3456

【Configuration example】

Such as: amend the password to 1234.

change root user password	
Tip: 1. If you set a new Web login password, the	n log in again after s
Old password	*
New password	*
Password again:	*
Save Clear	_

4.11.1.4 SSH login

In the navigation bar to select"**SYSTEM>system config>ssh login**", SSH open.the following picture:



🛃 Home	System settings System restart Password change ssh login Telnet login System log
🔜 Quickly Set	ssh config
PORT VLAN	note: Configure the user to be able to switch through the SSH login device.
Fault/Safety	Closed
MSTP	
DHCP RELAY QOS	
Addr Table	
SNMP	
SYSTEM System Config	
System Update	
Config Managem	
Config Save	

Configure the user to be able to switch through the SSH login device.

【Configuration example】

Such as:SSH open, you can CRT to log in.

ssh config
note: Configure the user to be able to switch through the SSH login device.
Open

4.10.1.5 Telnet login

In the navigation bar to select"**SYSTEM>system config>Telnet login**", Telnet open.The following picture:

🛃 Home	System settings System restart Password change ssh login Telnet login System log
🌉 Quickly Set	Telnet config
▶ PORT	note: Configure the user to be able to switch through the Telnet login device.
▶ VLAN	······································
Fault/Safety	Closed
MSTP	
DHCP RELAY	
▶ QOS	
Addr Table	
▶ SNMP	
SYSTEM	
System Config	
System Update	

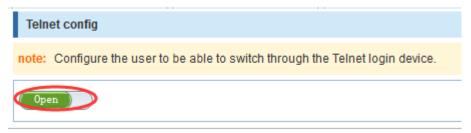
【instruction】

Configure the user to be able to switch through the Telnet login device.



【Configuration example】

Such as: Telnet open, PC Telnet functiono open, you can log in .



4.11.1.6 System log

In the navigation bar to select"**SYSTEM>password change>system log**", to view the log and set up the log server. the following picture:

🛃 Home	System settings System restart Password change Ssh login Telnet login System log
🌉 Quickly Set	log config
PORTVLAN	explain: Open the log switch, set the syslog server, and the system log will be automatically pushed to the server.
Fault/Safety	log switch: Open
MSTPDHCP RELAY	send log levet: Informational(6)
▶ QOS	save setting
Addr Table	current log information
SNMPSYSTEM	key query clear log
System Config System Update	Syslog logging: enabled Console logging: disabled Monitor logging: level debugging, 0 messages logged Buffer logging: level debugging, 349 messages logged
Config Managem Config Save	Buier toguing, tevr teologying, Sey thessages togged Earlier State (Section 2014) and the section 2014 and the sec

[parameter description]

parameter	description
Log switch	Open and close
Server ip	Appoint to server address
Send log level	0-7
key	Enter the required query of characters

[instruction]

Open log switch, set up the syslog server, system log will automatically be pushed to the server.

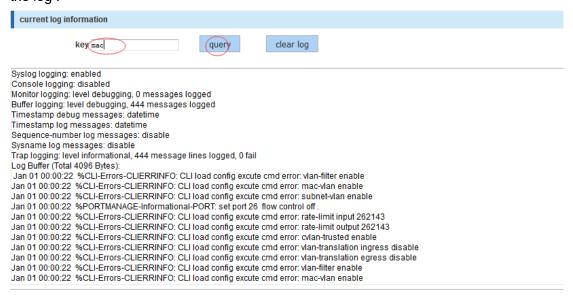
【Configuration example】

Such as: 1) the error log information in 192.168.2.1 pushed to the server



log config	
explain: Open the log switch, set th	e syslog server, and the system l
log switch:	Open
server IP:	192. 168. 2. 1
send log level	Errors(3)
save setting	

2) input the Mac keywords , click "query" button, click on the "clear log" button, can clear the log .



4.11.2 System upgrade

In the navigation bar to select"**SYSTEM>system upgrade**", Optional upgrade file to upgrade. the following picture.



🛃 Home	System Upgrade
S Quickly Set	system opgrade
	note: 1, please confirm that the upgraded version of the same model and the same model.
▶ PORT	2, in the upgrade process, you may encounter flash to make the page is temporarily unable to respond to the
▶ VLAN	file name: Browse No file selected. Start upgrading
Fault/Safety	
MSTP	
DHCP RELAY	
▶ QOS	
Addr Table	
▶ SNMP	
▼ SYSTEM	
System Config	
System Update	
Config Managem	
Config Save	
Administrator Pri	
Info Collect	

1 please confirm that the upgraded version of the same model and the same model. 2 in the upgrade process, you may encounter flash to make the page is temporarily unable to respond to the page, this time can not power off or restart the device, until prompted to upgrade successfully!

4.11.3 Config management

4.11.3.1 Current configuration

In the navigation bar to select"**SYSTEM>config management>current configuration**", can import and export configuration files, the backup file. the following picture:



🖲 Home	Current configuration Configuration backup Restore	factory configuration
🔜 Quickly Set	Show Current Config Export Config	
	backup import configuration file name: confirm backup	
MSTP	Backup file list	
DHCP RELAY	Name	
Addr Table	bconfig	2.00K
SNMP		
SYSTEM		
 System Config 		
System Update		
• Config Managem.		
Config Save		
Administrator Pri		
Info Collect		

Import process can not be closed or refresh the page, or import will fail! After the introduction of configuration, to enable the new configuration, please in this page Restart device Otherwise configuration does not take effect.

【Configuration example】

Such as: 1) in the configuration first save the page, click save configuration to save the current configuration, then export the configuration.

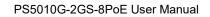
Import/Export	Config Rest	ore Config	Factory Reset					
Show Current Config	g Export Config							
🔍 Backup 🛛 🖲 Imp	oort Configuration							
Do not refresh or clo	🦻 Save As						×	
Prompr: After the	← → ~ ↑ <mark> </mark>	→ This PC → Deskto	op → New folder	ٽ ~	Search New folde	ſ	P	fect
File Name: Choo	Organize 🔻 Ne	w folder					?	
Backup File List	📌 Quick access	Name	^	Date modified			Size	-
	💻 This PC			No items match your searc	h.			
switch_back.conf	💣 Network							
		<					>	
	File <u>n</u> ame:	switch.conf					~	
	Save as <u>t</u> ype:	CONF File (.conf)					~	
	∧ Hide Folders				Save	Cano	:el	

2) import configuration.



Show Churrent Config Export Configuration Do not refresh or close the page during the import Prompr: After the Introduction of configuration, to enable the new configuration, please in this page Restart device Otherwise configuration does not take effect File Name: Choose File % of the chosen Eackup File Choose File % of the chosen Corganize New folder Organize New folder Switch_back.con 11/21/2017 12:10 CONF File Name
Do not refresh or close the page during the import Prompr: After the introduction of configuration, to enable the new configuration, please in this page. Restart device: Otherwise configuration does not take effect File Name: Onose File No file chosen Open Backup File Corganize New folder Vew folder
Prompr: After the introduction of configuration, to enable the new configuration, please in this page Restart device Otherwise configuration does not take effect File Name: Choose File No file does not take effect P Open Backup File Organize New folder Organize New folder P Date modified Type Size P Switch_back.co R Quick access Name Date modified Type Size Network File name: switch.conf File name: switch.conf All Files
File Name: Choose File No file ohosen Poper Backup File Organize New folder Organize Name Date modified Type Size V V File name Switch_conf II/21/2017 12:10 CONF File File name Switch_conf All Files All Files
Backup File Corganize New folder Organize New folder Switch_back.co Aurick access Name Date modified This PC This PC This PC Network File name switch.conf All Files All Files
Backup File Organize New folder Witch_back.co Image: Organize Name Date modified This PC Image: Organize Name Date modified This PC Image: Organize Name Date modified This PC Image: Organize Image: Organize Name Date modified Type Size Image: Organize Name Date modified Type Image: Organize Name Date modified Type Size Image: Organize Name Date modified Type Size Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize Image: Organize <t< th=""></t<>
Organize New folder Switch_back.co Image: Control of the second sec
switch_back.co
Image: Solution of the solution of
■ This PC
< File name: switch.conf All Files
< File name: switch.conf All Files
File name: switch.conf V All Files V
File name: switch.conf V All Files V
File name: switch.conf V All Files V
File name: switch.conf V All Files V
File name: switch.conf V All Files V
File name: switch.conf V All Files V
File name: switch.conf V All Files V
File name: switch.conf V All Files V
Conen Di Cancel
Open y Cancer
Current configuration Configuration backup Restore factory configuration
Show Current Config Export Config
♥ backup ● import configuration
Import process can not be closed or refresh the page, or import will fail!
prompr. After the introduction of configuration, to enable the new configuration, please in this page Restart device Otherwise configuration does not take effect
file name: Browse No file selected. Import configuration
3)backup.

Current configuration Configuration backup Restore factory conf	iguration
Show Current Config Export Config	
backup © import configuration	
file name: 12357 .conf	
confirm backup	
Backup file list	
Name	
bconfig	2.00K





4.11.3.2 Configuration backup

In the navigation bar to select"**SYSTEM>config management>configuration backup**", you can configure backup file.the following picture:

C	Current configuration Configuration backup Restore factory configuration				
explain: Click the file name to view the contents of the configuration file, save up to 5 backup files.					
	Name	Si			
۲	bconfig	2.00K			
\bigcirc	12357.conf	25.46K			



(instruction)

Operating this page should be in the current configuration page first, the backup file.

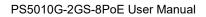
【Configuration example】

Such as:restore backup.

Current configuration Configuration backup Restore factory confi	guration
explain: Click the file name to view the contents of the configuration file, save up to 5 backup files.	
Name	
◎ bconfig	2.00K
12357.conf	25.46K
© Restore backup © delete backup © Save backup © Rename backup Rename; swert .conf	

4.10.3.3 Restore factory configuration

In the navigation bar to select"**SYSTEM>config management>restore factory configuraton**", Can export the current configuration and restore factory configuration .the following picture:





🛃 Home	Current configuration Configuration backup Restore factory configuration		
🛃 Quickly Set	Note: Restore to default settings will delete all current configurations. If there are useful configurations, clickExport Existing Configurationsbefore restoring to default settings		
▶ PORT			
VLAN	Export Current Config Restore Factory		
Fault/Safety			
▶ POE			
▶ MSTP			
DHCP RELAY			
▶ QOS			
Addr Table			
▶ SNMP			
SYSTEM			
System Config			
System Update			
Config Managem			
Config Save			

Restore the factory configuration, will delete all the current configuration. If you have any useful configuration, the current system can lead the factory configuration again after the current configuration.

【Configuration example】

Such as: restore configuration can be the guide before they leave the current configuration .

Current configuration Configuration backup Restore factory configuration
Note: Restore to default settings will delete all current configurations. If there are useful configurations, clickExport Existing Con
Export Current Config Restore Factory

4.11.4 Config save

In the navigation bar to select"**SYSTEM>config save**", you can save current configuration.the following picture.



🛃 Home	Note: Save settings will delete all default configurations. If there are useful configurations, clickbackup Configurationsbefore save the settings.	
属 Quickly Set		
PORT	Save settings	
VLAN		
Fault/Safety		
POE		
MSTP		
DHCP RELAY		
QOS		
Addr Table		
SNMP		
SYSTEM		
System Config		
System Update		
Config Managem		
Config Save		
Administrator Pri		
Info Collect		

Save settings will delete all default configurations. If there are useful configurations, clickbackup Configurationsbefore save the settings.

【Configuration example】

Such as:click"save settings"button.



4.11.5 Administrator privileges

In the navigation bar to select"**SYSTEM>administrator privileges**", Configurable ordinary users. the following picture.

📕 Home	Administrator privileges		
🛃 Quickly Set	explain: This page only super administrator can access, for managing users and visitors. Users can log on to the Web management system for the maintenance of the equipment.		
▶ PORT	user name:		
 VLAN Fault/Safety 	new password:		
▶ POE	confirm password:		
▶ MSTP	add user		
DHCP RELAY	userlist		
 QOS Addr Table 	user name	operation	
Addr lable SNMP			
▼ SYSTEM	admin	Ø	
System Config	user		
System Update		frist page prev page [1] next page las	
Config Managem			
Config Save			
Administrator Pr			
Info Collect			



Only the admin of the super administrator can access this page is used to manage users and visitors. The user can log in the Web management system of equipment for routine maintenance. In addition to the admin and user, can add up to five users. Ordinary users can only access information system home page.

[Configuration example]

Such as:

Administrator privileges
explain: This page only super administrator can access, for managing users and visitors. Users can log on to the Web management system for the maintenance of the equipment.
user name: 1234 *
new password:
confirm password:
add user

4.11.6 Info collect

In the navigation bar to select"**SYSTEM>info collect**", you can collect to the system debug information.the following picture.

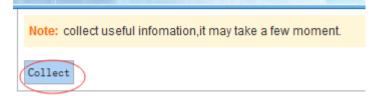


🛃 Home	Note: collect useful infomation, it may take a few moment.
🌉 Quickly Set	
PORT	Collect
VLAN	
Fault/Safety	
▶ POE	
▶ MSTP	
DHCP RELAY	
▶ QOS	
Addr Table	
▶ SNMP	
SYSTEM	
System Config	
System Update	
Config Managem	
Config Save	
Administrator Pri	

collect useful infomation, it may take a few moment .

【Configuration example】

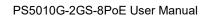
Such as: click on "collect" button .





Appendix: Technical Specifications

Hardware Features			
Standards		IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z, IEEE 802.3at, IEEE 802.3af, IEEE 802.1q,	
Network Media (Cable)		IEEE 802.1p 10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) 1000Base-T: UTP category 5e, 6 cable (maximum 100m) 1000Base-SX:62.5 μ m/50 μ m MMF(2m~550m) 1000Base-LX:62.5 μ m/50 μ m MMF(2m~550m) Or 10 μ m SMF(2m~5000m)	
Number of Ports		8 x 10/100/1000Mbps Auto-Negotiation ports 2 x 1000Mbps SFP ports 1 x Console port	
Transfer Me	thod	Store-and-Forward	
Switching C	apacity	20Gbps	
MAC Addres	ss Table	8K	
Packet Forw	arding Rate	14.88Mpps	
Packet Buffe	er	4.1Mbit	
Jumbo Fram	ne	9216Bytes	
PoE Ports(R	RJ45)	8* PoE ports compliant with 802.3at/af	
Power Pin A	ssignment	1/2(+), 3/6(-)	
PoE Budget		140W	
MAC Address Learning Dimensions (L × W × H) Power Supply Power consumption		Automatically learning, automatically update 8K Table	
		280*180*44.3 mm	
		AC 100V~240V 50/60Hz (Internal Power supply)	
		Max 161W (220V/50Hz)	
Indicators	Per Device	Power, System	
	Per Port	Link/Activity/Speed, PoE	
Environment		Operating Temperature: 0°C [~] 50°C Storage Temperature: -40°C [~] 70°C Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing	





Software Specification		
Basic function	Three layers of functional	The security policy
Ethernet Setup	> The ARP deception, the	ACE capacity
> STP/RSTP/MSTP	network cheating	➢ ACL
Storm-Eontrol	Filtering the IP port	≻ QoS
Port Monitor	Static binding IP and	➢ DAI
Port rate-limit	MAC	
MAC filtering	 Arp trust port 	
	Static routing capacity	
	Ping and Traceroute	
VLAN	Safety features	Application protocol
Port based VLAN	➤ Radius	DHCP Relay
➢ 802.1Q VLAN	Tacacs+	DHCP snooping
	Preventing DOS attacks	DHCP Client
	≻ dot1x	➢ FTP/TFTP
	The gateway ARP	
	deception	
Management	Other function	POE Management
≻ HTTP WEB	> LLDP	POE Status
≻ Telnet	IGMP Snooping	Power supply
≻ SSH	➢ SNMPV1, V2c, V3	management
➢ Console	➢ RMON(1, 2, 3, 9)	mode(auto/energy/static)
		The port priority