

ALL-SG8205PDM

5 Port Gigabit Managed Fanless PoE (1 Port PD) Switch



USER MANUAL

Table of Content

Package Contents	4
1. Introduction	4
2. Hardware Description	4
2.1 Front Panel	
2.2 Rear Panel	5
3. Installation the Switch	5
3.1 Desktop Installation	
3.2 Wall-mountable Installation	
3.3 Turn on the switch	
4. How to Login the Switch	7
4.1 Switch to End Node	
4.2 Logging on the Switch	
5. Management the Switch	
5.1 Administrator	
5.1.1 System Information	
5.1.2 User Config	
5.1.3 Management File	
5.1.4 Access config	
5.1.5 SNMP Config	
5.2 Interface Manage	
5.2.1 Storm control	13
5.2.2 port rate-limit	14
5.2.3 Mirror	14
5.2.4 Port channel Config	15
5.2.5 Isolate-port config	17
5.2.6 Port statistics	17
5.2.7 PoE Config	19
5.3 Business manage	
5.3.1 VLAN config	
5.3.2 MAC Config	
5.3.3 Spanning-tree config	
5.3.4 IGMP-SNOOPING	
5.3.5 Qinq-cofig	
5.3.6 Qos Config	
5.3.7 LLDP Config	
5.3.8 DHCP Server Config	
5.3.9 Time Range Config	
5.4 Route Manage 5.4.1 L3 interface set up	
5.4.1 L3 Interface set up	
5.4.3 Static Config	
J.4.3 Static Cotting	

5.5 Network Security	37
5.5.1 Access Control	37
5.5.2 Attack protection	37
5.5.3 ACL Config	
5.5.4 Traffic monitor	
5.5.5 Alarm-config	39
5.6 System management	
5.6.1 Log Config	40
5.6.2 Diagnosis	40
5.6.3 NTP Config	41
5.6.4 Reboot	
5.6.5 Firmware	42
5.7 Save	43
5.8 Hardware Specifications	44

Package Contents

Check the following contents of your package:

- ALL-SG8205PDM x 1
- User Manual x 1
- Accessories(Rubber Feet x4)

If any part is lost and damaged, please contact your local agent immediately.

1. Introduction

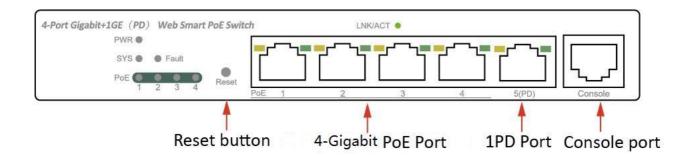
The ALL-SG8205PDM provide wire-speed performance and abundant layer 2 management features. It provides a variety of service features and multiple powerful functions with high security. They also Power Sourcing Equipment. All the 10/100/1000Mbps RJ45 ports on the switch support Power over Ethernet function, which can automatically detect and supply power with those powered devices complying with IEEE 802.3af and IEEE 802.3at.

The ALL-SG8205PDM integrates multiple functions with excellent performance, and is friendly to manage, which can fully meet the need of the users demanding higher networking performance. include Administrator, PoE, Port Management, VLAN Setting, QoS Setting, Security, Spanning Tree, Trunking, DHCP Relay Agent, Backup/Recovery, SNMP settings and so on.

2. Hardware Description

2.1 Front Panel

The Front Panel Consists 4-Port Gigabit+1GE (PD) +1Console Managed PoE Switch. The LED indicators and Reset Button also on located on the panel.

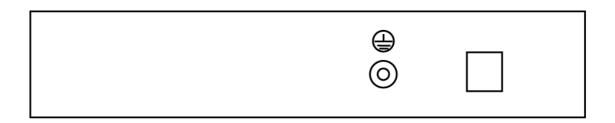


LED indicator

LED	Color	Function
DVA/D	Croon	Off: No Power supply
PWR	Green	Light: Indicates the switch has power
		Off: No device is connected to the corresponding port
		Light: Indicates the link through that port is successfully
LNK/ACT Green	Green	established at 10/100/1000Mbps.
		Blink: Indicates that the Switch is actively sending or
	receiving data over that port.	
SYS Green		Blinking: the system works
		Out: the system is starting or has no power
		Off: No PoE powered device (PD) connected
РоЕ	Orange	Light: There is a PoE PD connected to be port, which
		supply power successfully.
		Blink: Indicates port abnormal power supply
Facilit	Green	Off: the equipment is connected to normal
Fault		Light: unit exception

2.2 Rear Panel

The rear panel indicates an DC inlet power socket, Grounding Column.



3. Installation of the Switch

This part describes how to install your ALL-SG8205PDM and make connections to it. Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

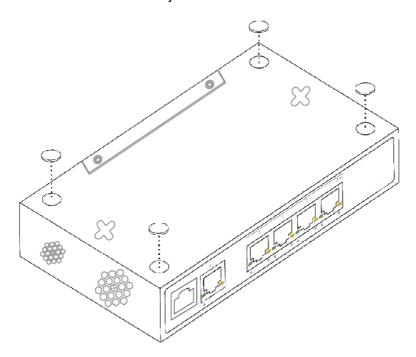
- Before cleaning the switch, unplug the power plug of the switch first. Do not clean the switch with wet cloth or liquid;
- Do not place the switch near water or any damp area. Prevent water or moisture from entering

the switch chassis;

- Do not place the switch on an unstable case or desk. The switch might be damaged severely in case of a fall;
- Ensure proper ventilation of the equipment room and keep the ventilation vents of the switch free of obstruction;
- Make sure that the operating voltage is the same one labeled on the switch;
- Do not open the chassis while the switch is operating or when electrical hazards are present to avoid electrical shocks.

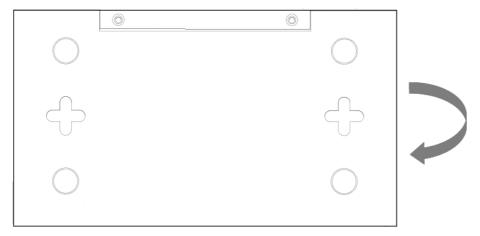
3.1 Desktop Installation

Install 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.



3.2 Wall-mountable Installation

In the first two fixed screw on the wall as shown in the figure below Aim at the two fixed hole switches, and the machine smoothly on the screw



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3.3 Turn on the switch

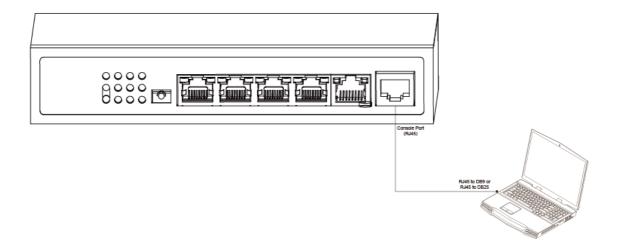
The PoE switch can be used with DC power supply. Powering on the switch, it will automatically initialize and its LED indicators will respond as follows:

- 1) Firstly, the Power LED indicator will light up.
- 2) Then, the data LED indicators will flash momentarily for one second, which represents a resetting of the system.

4. How to Login the Switch

4.1 Switch to End Node

Use standard Cat.5/5e Ethernet cable (UTP/STP) to connect the Switch to end nodes as described below. The ALL-SG8205PDM ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which is connected.



Please refer to the LED Indicator Specification. The Link/Act LED for each port lights green when the link is available.

4.2 Logging on the Switch

As the ALL-SG8205PDM provides Web-based management login, you can configure your computer's IP address manually to log on to the ALL-SG8205PDM. The default settings of the ALL-SG8205PDM are shown below.

Parameter	Default Value
Default IP address	192.168.2.1
Default user name	admin
Default password	admin

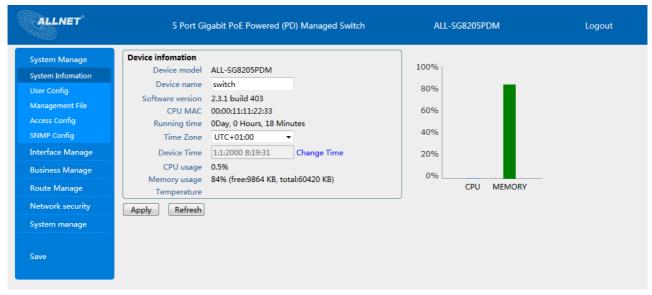
You can log on to the welcome window of the the ALL-SG8205PDM through following steps:

- 1. Connect the ALL-SG8205PDM with the computer NIC interface.
- 2. Power on the ALL-SG8205PDM.
- 3. Check whether the IP address of the computer is within this network segment: 192.168.2.xxx ("xxx" ranges 0~255), for example, 192.168.2.100.

4. Open the browser, and enter http://192.168.2.1 and then press "Enter". The ALL-SG8205PDM login window appears, as shown below.



5. Enter the user name and password (The factory default login username and password is admin), and then click "Login" to log in to the Switch configuration window as below.

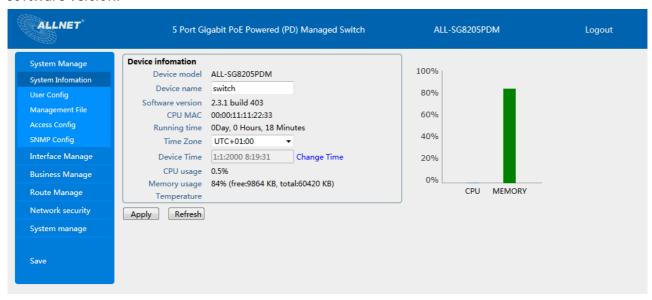


5. Management the Switch

5.1 Administrator

5.1.1 System Information

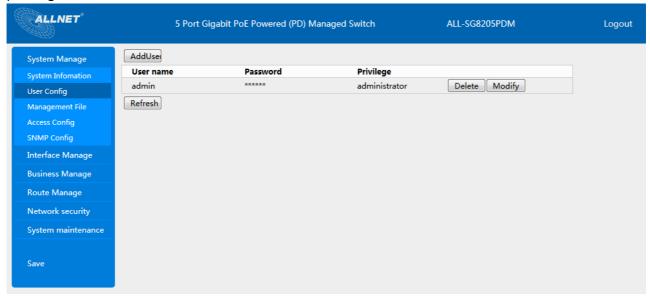
This page is used to check the status of ALL-SG8205PDM, including Switch MAC address and software version.



The MAC address and version of the switch will be shown at system status diagram box. Comment field can accept "Aa~Zz", "0-9", "_", "+", "-", "=", excluding special character.

5.1.2 User Config

This page shows system configuration including the current user name and password and privilege.

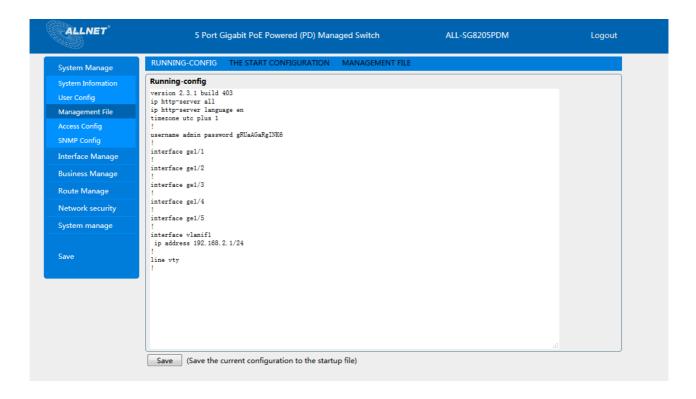


5.1.3 Management File

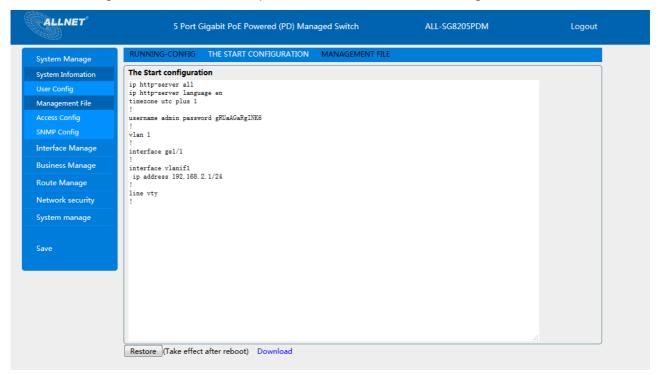
This page shows system configuration including the current running-config the start configuration, management file

Running-config is the currently running configuration

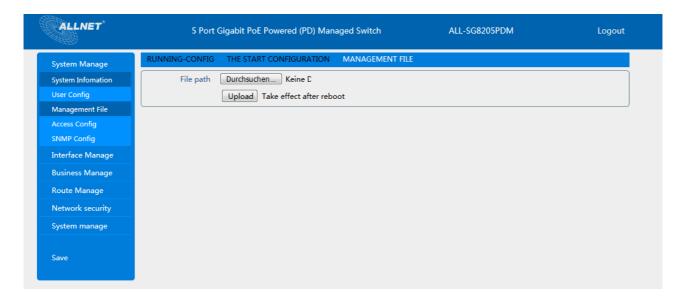
The start configuration is the state of preservation before the last outage



The start configuration is the state of preservation before the last outage

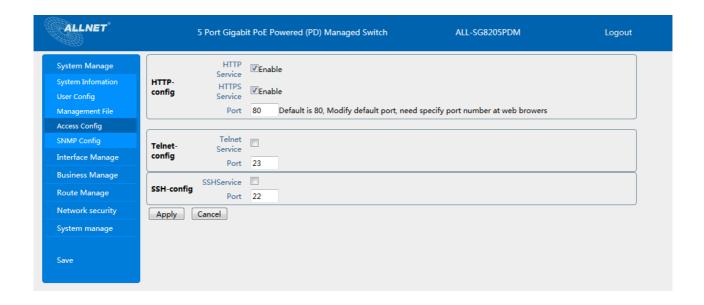


Management File is the Upload profile



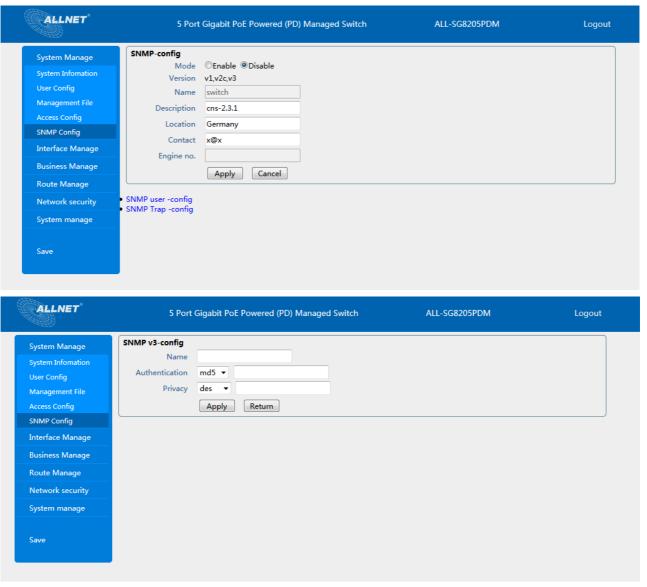
5.1.4 Access config

Access configuration can configure http,telnet,and SSH



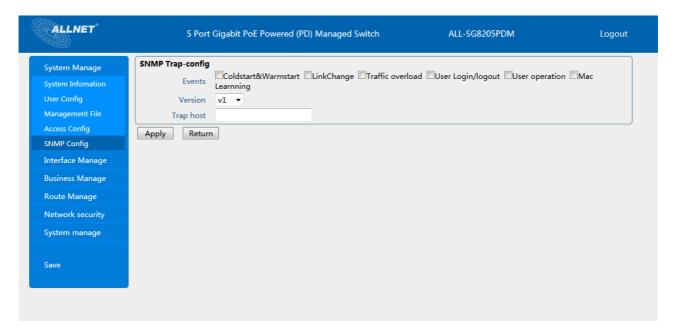
5.1.5 SNMP Config

This page contains SNMP-config、V3-config、trapconfig



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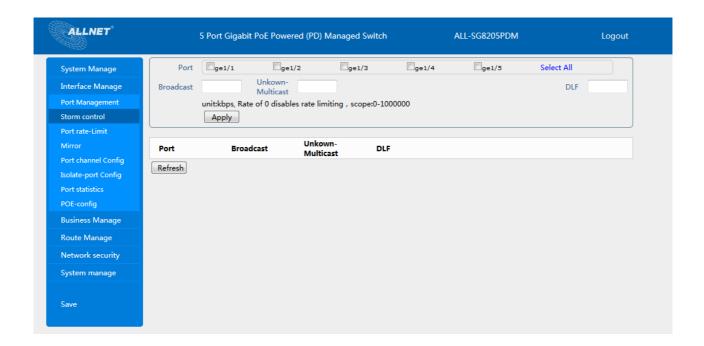


5.2 Interface Manage

5.2.1 Storm control

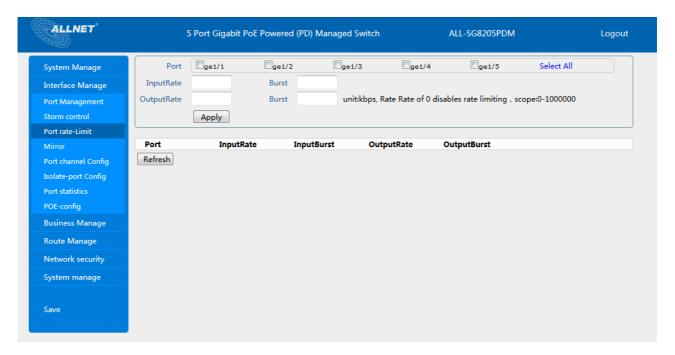
Storm control allows ports to filter certain types of storm messages that appear on the network. After the storm control is turned on, when the corresponding frame received by the port accumulates to a predetermined limit, the port will automatically discard the received data frame. Avoid network congestion caused by port storms.

Broadcast Storm print, only configure storm suppression only fill in storm suppression value, and select the corresponding port, other storm suppression does not need to set the value to 0.



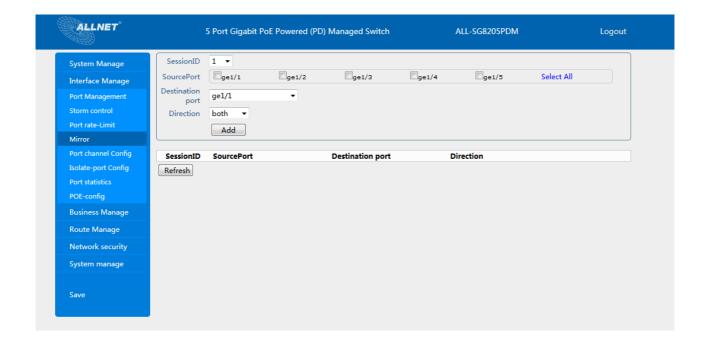
5.2.2 port rate-limit

Configuring port rate can limit the bandwidth of a port and avoid overflowing a port with too many data packets. Configuration burst and entry rate are configured together to take effect.



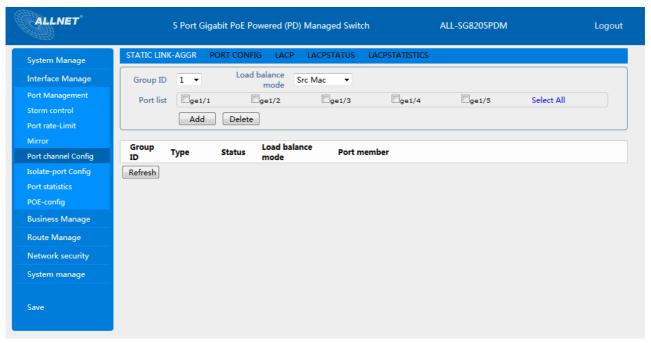
5.2.3 Mirror

A message sent or received by a port can be copied to the monitoring port. Mirroring is based on vlan, the default port belongs to Vlan1, testing needs to send vlan tagged data message. There are four session IDs, and different IDs can set up different mirroring groups.

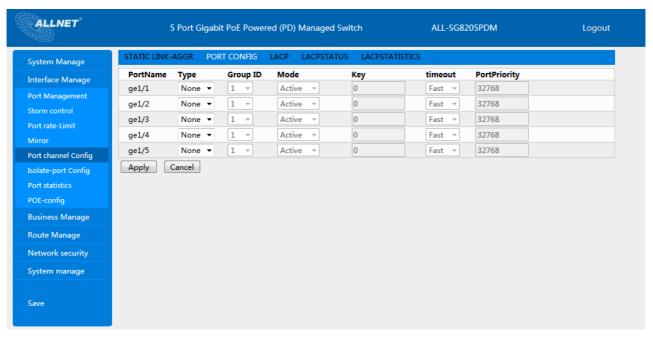


5.2.4 Port channel Config

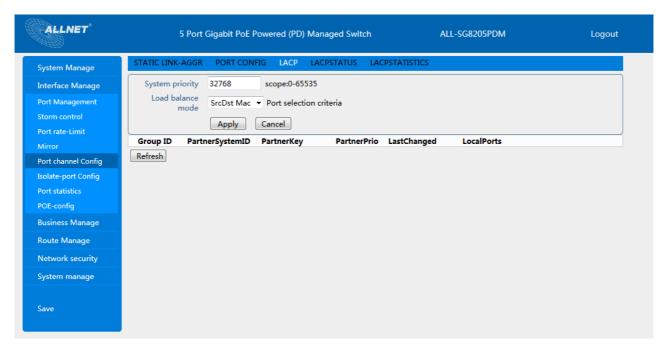
This page contains STATIC LINK-AGGR、PORT CONFIG、LACPSTATUS、LACPSTATISTICS



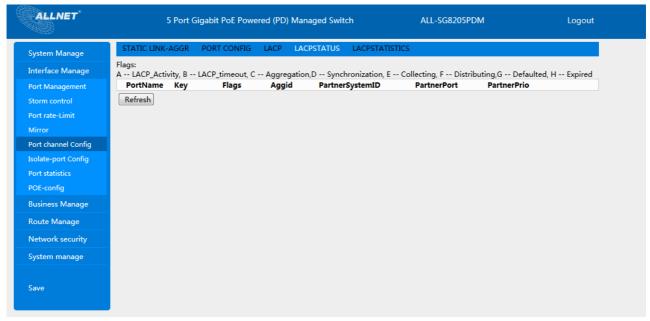
PORT CONFIG



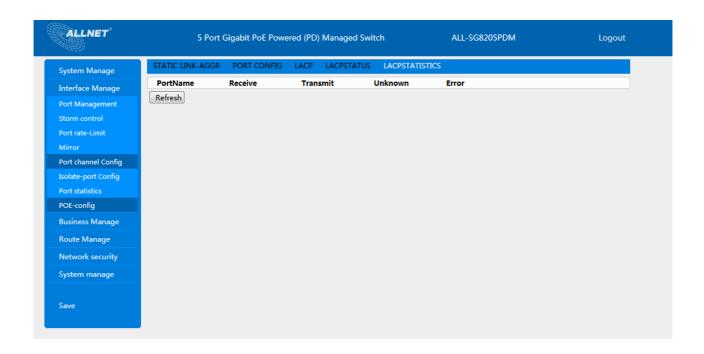
LACP



LACPSTATUS

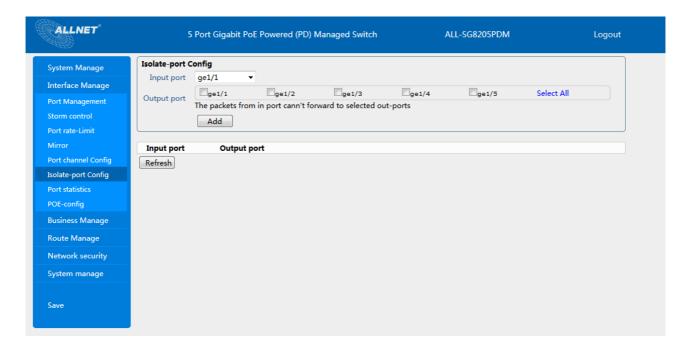


LACPSTATISTICS



5.2.5 Isolate-port config

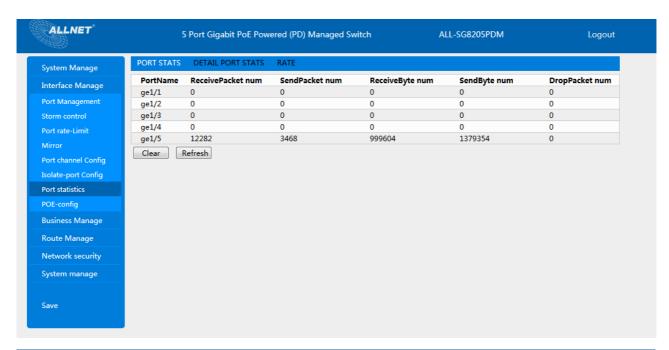
Port isolation can realize the independence of receiving and sending ports. It is convenient to designate a port to receive messages from a particular port and discard messages from some ports.

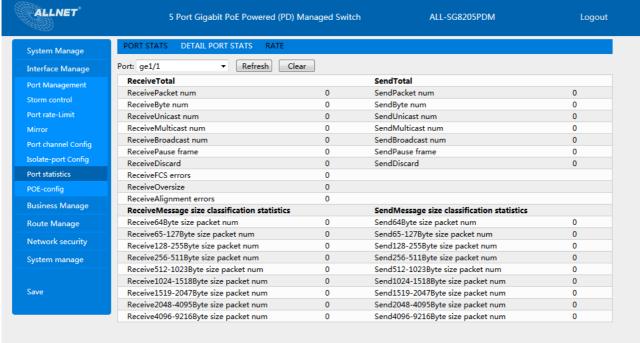


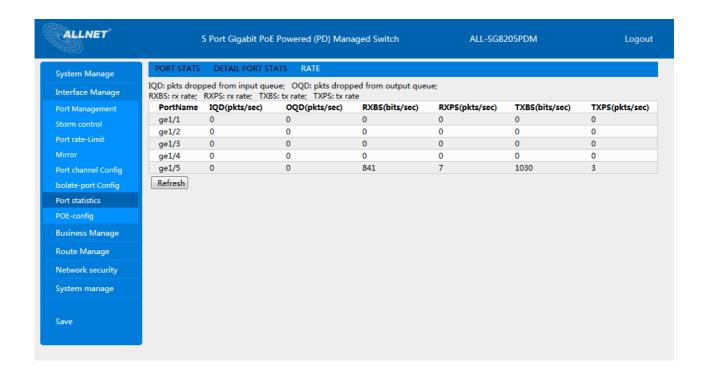
5.2.6 Port statistics

Port stats

The data message received or sent by the current port can be analyzed for each port. Port statistics are divided into port summary statistics and port detailed statistics. You need to analyze different messages in detail, and you can see the port details.

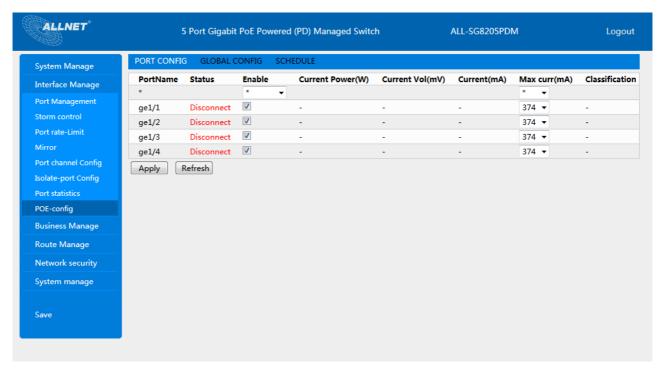




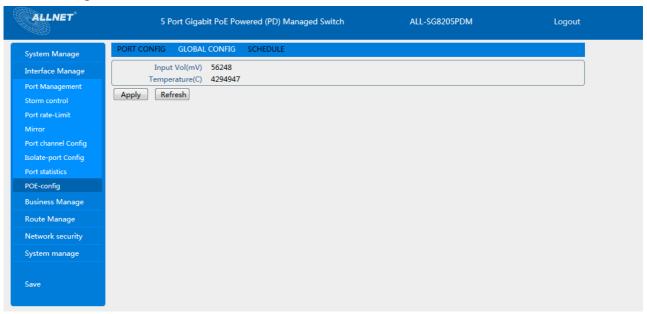


5.2.7 PoE Config

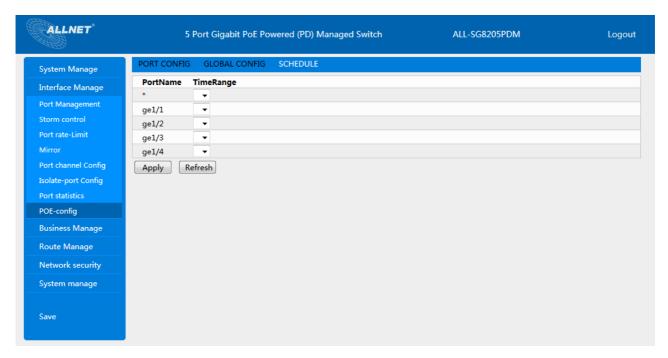
This page contains port config. Global config. schedule



Global config



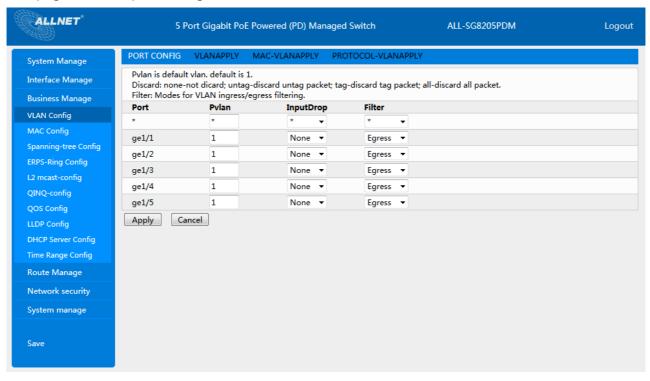
Schedule



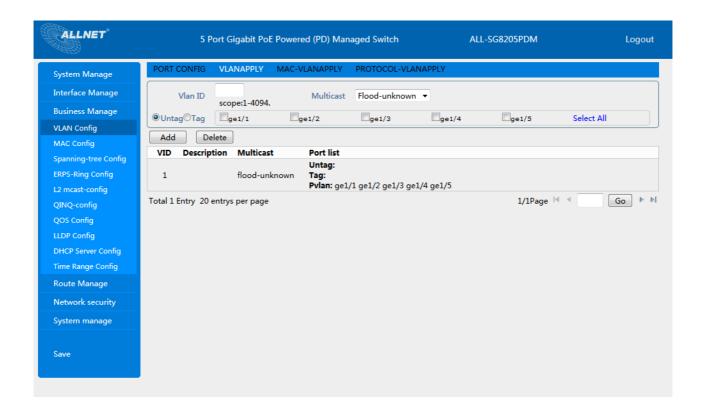
5.3 Business manage

5.3.1 VLAN config

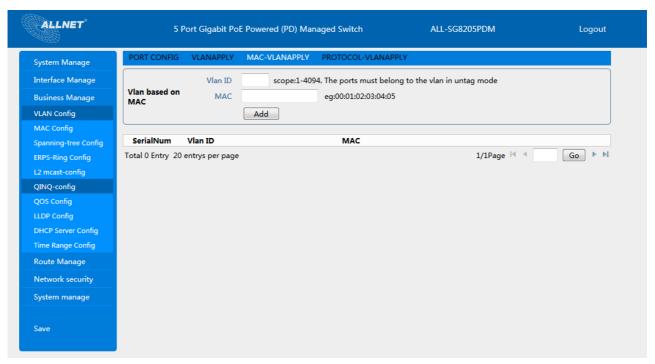
This page contains port config、VLANAPPLY、MAC-VLANAPPLY、PROTOCOL-VLANAPPLY



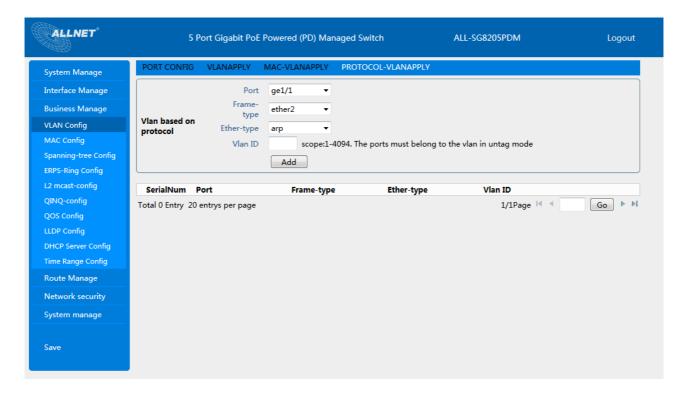
VLAN APPLY



MAC-VLAN APPLY



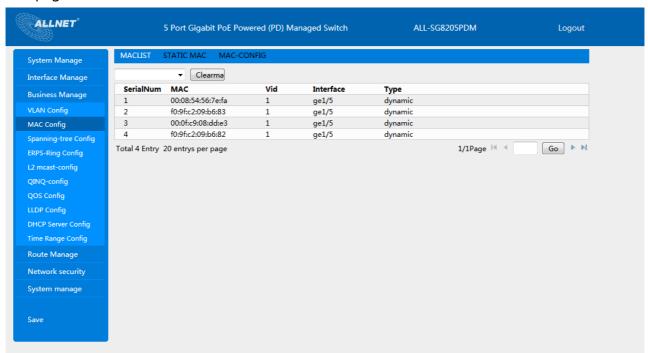
PROTOCOL-VLANAPPLY



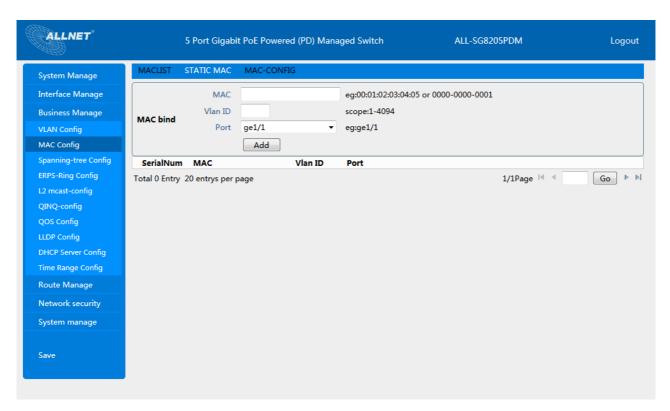
5.3.2 MAC Config

The default is dynamic mac. you can modify the mac aging time

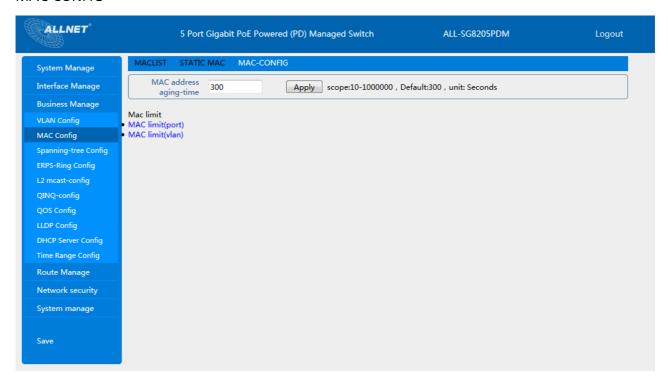
This page contains MACUST、STATIC MAC、MAC-CONFIG

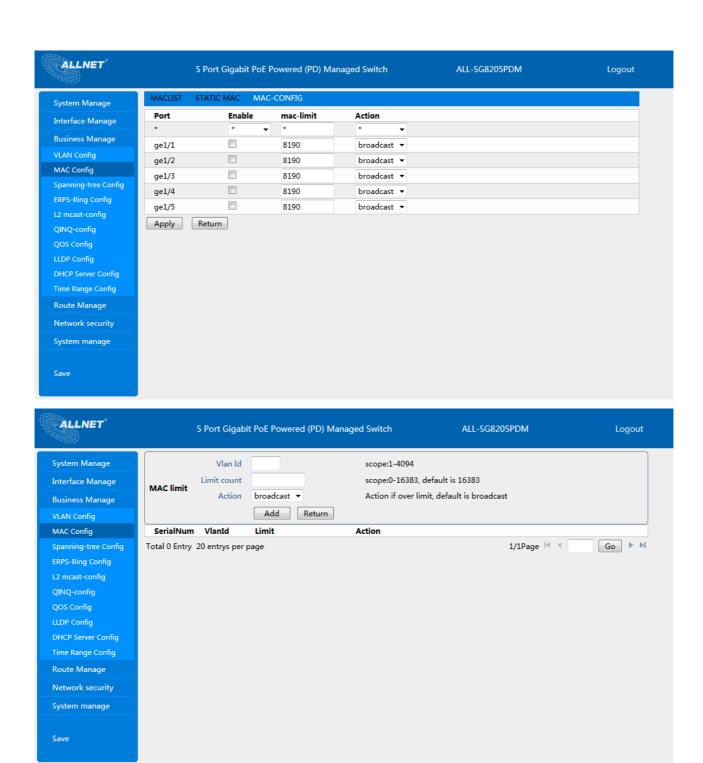


STATIC MAC



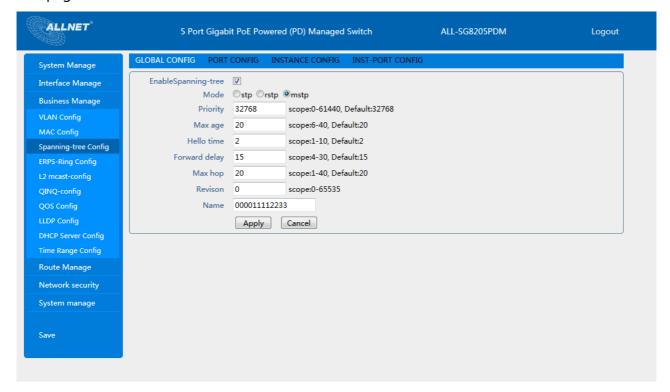
MAC-CONFIG



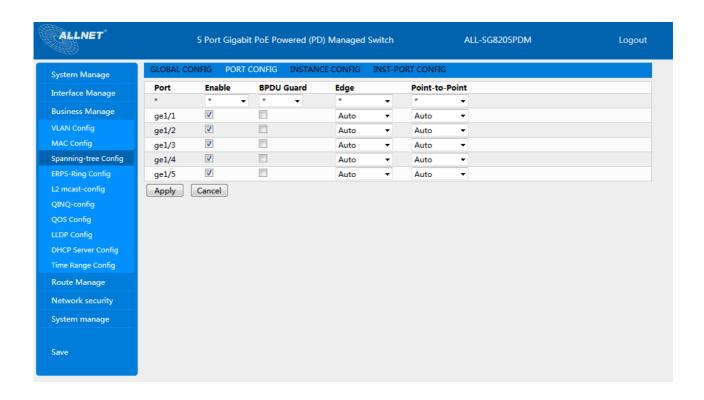


5.3.3 Spanning-tree config

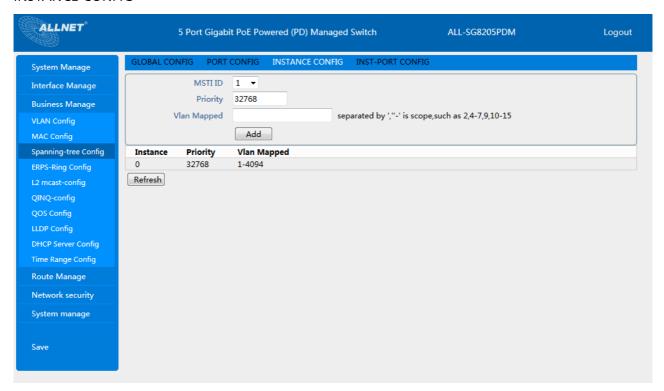
This page contains GLOBAL CONFIG \(\) PORT CONFIG \(\) INSTANCE CONFIG



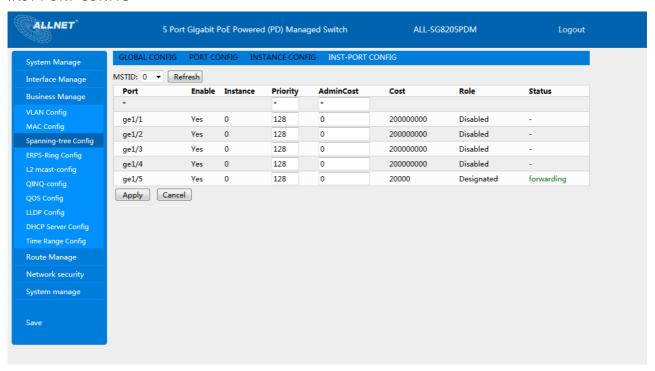
PORT CONFIG



INSTANCE CONFIG

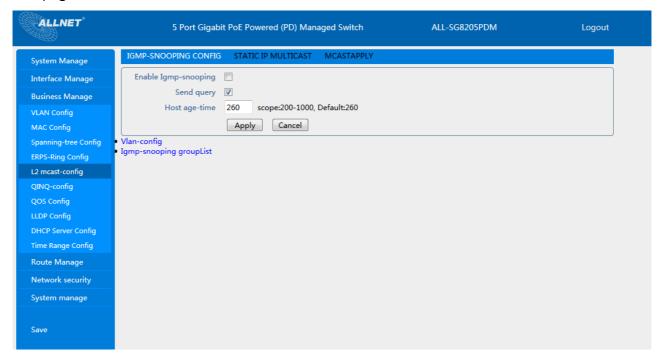


INST-PORT CONFIG

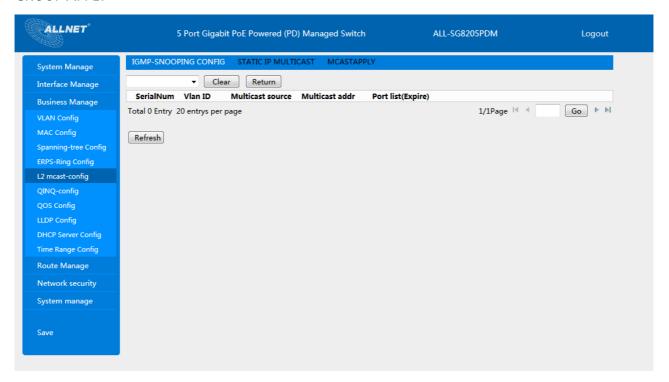


5.3.4 IGMP-SNOOPING

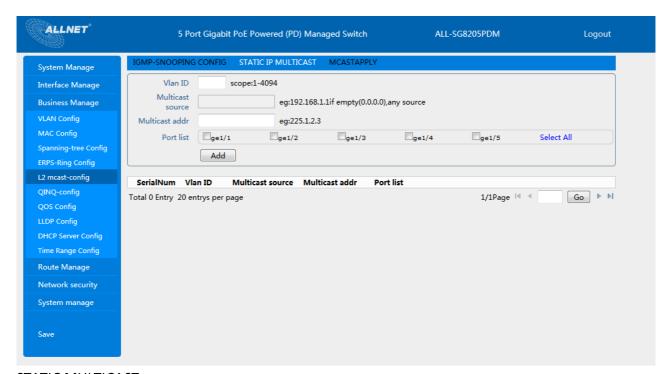
This page contains IGMP-SNOOPING、GROUPAPPLY、VLANAPPLY、STATIC MULTICAST



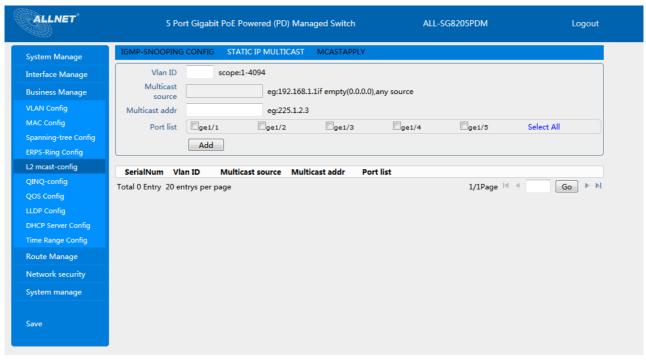
GROUP APPLY



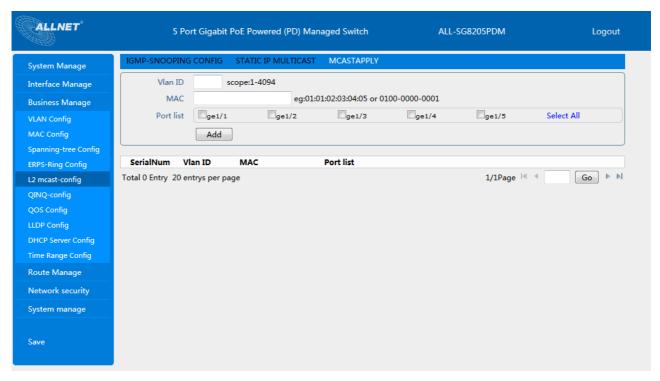
VLAN APPLY



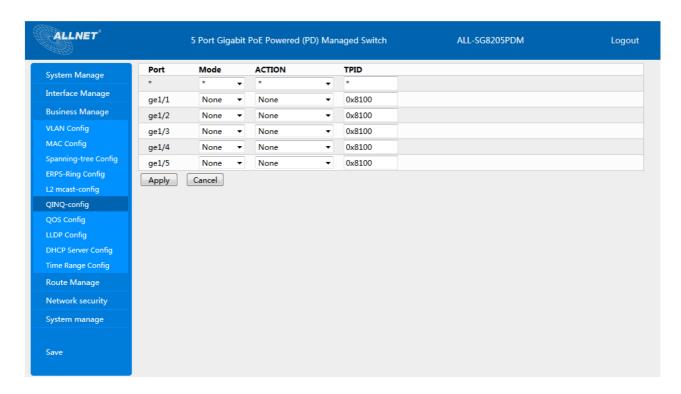
STATIC MULTICAST



MCASTAPPLY

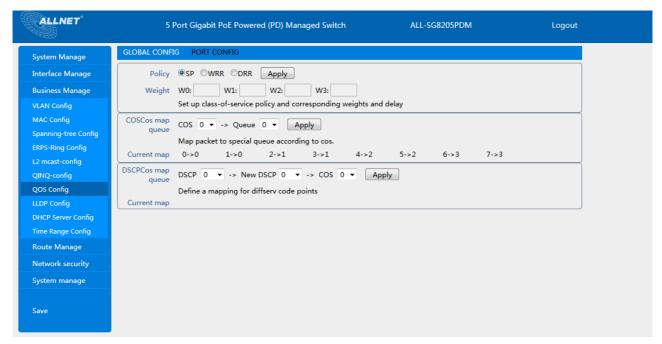


5.3.5 Qinq-cofig

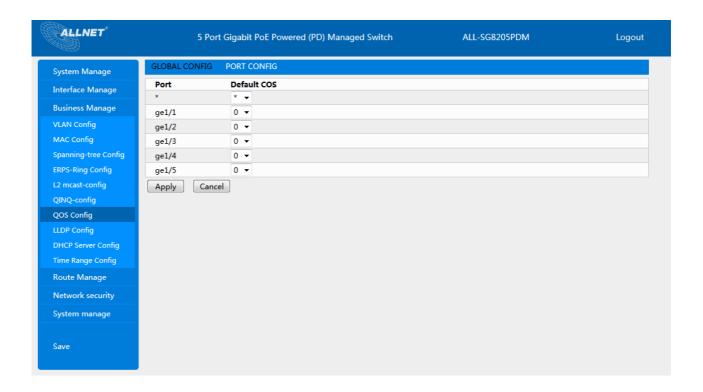


5.3.6 Qos Config

This page contains GLOBAL CONFIG PORT CONFIG

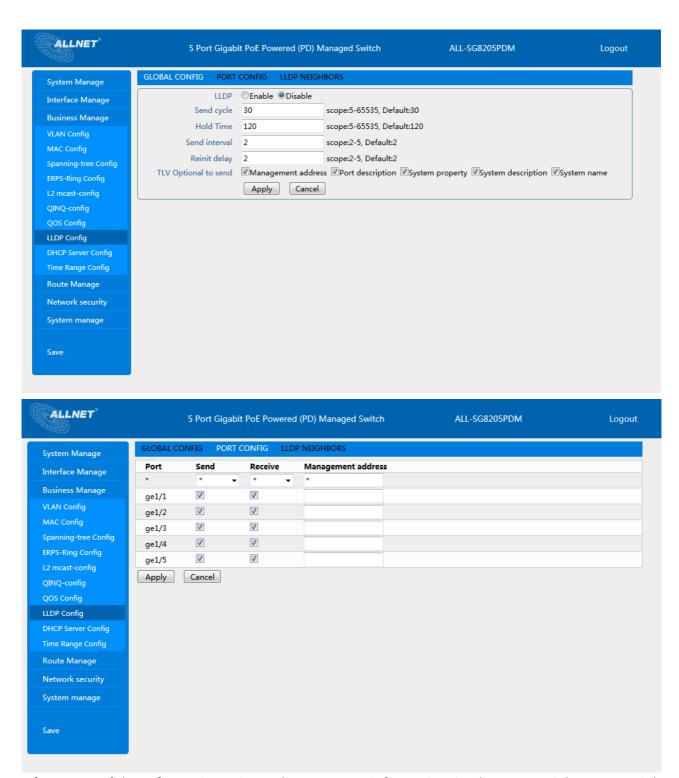


PORT CONFIG

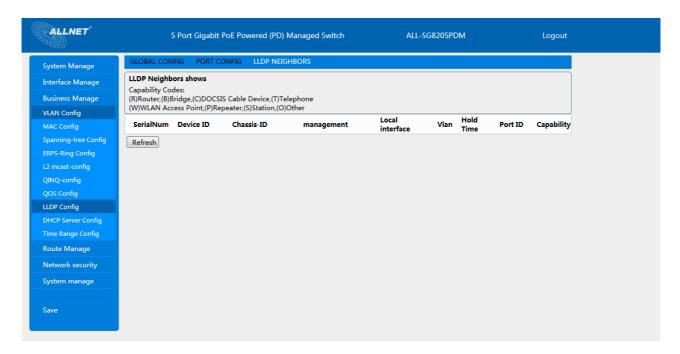


5.3.7 LLDP Config

The link layer discovery protocol (LLDP) is a vendor independent two level protocol, which allows network devices to notify their device identities and performance in the local subnet.
br/>

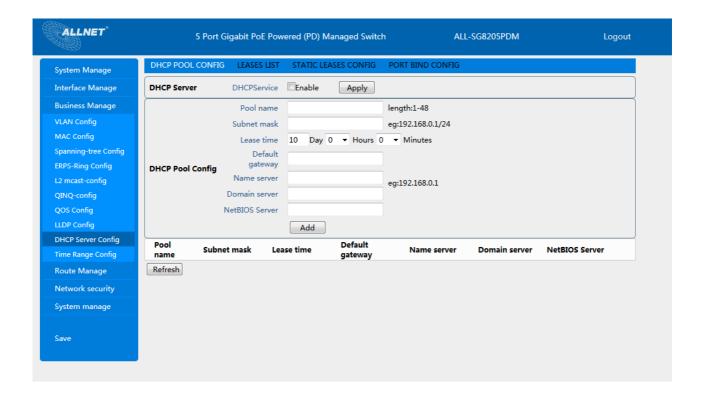


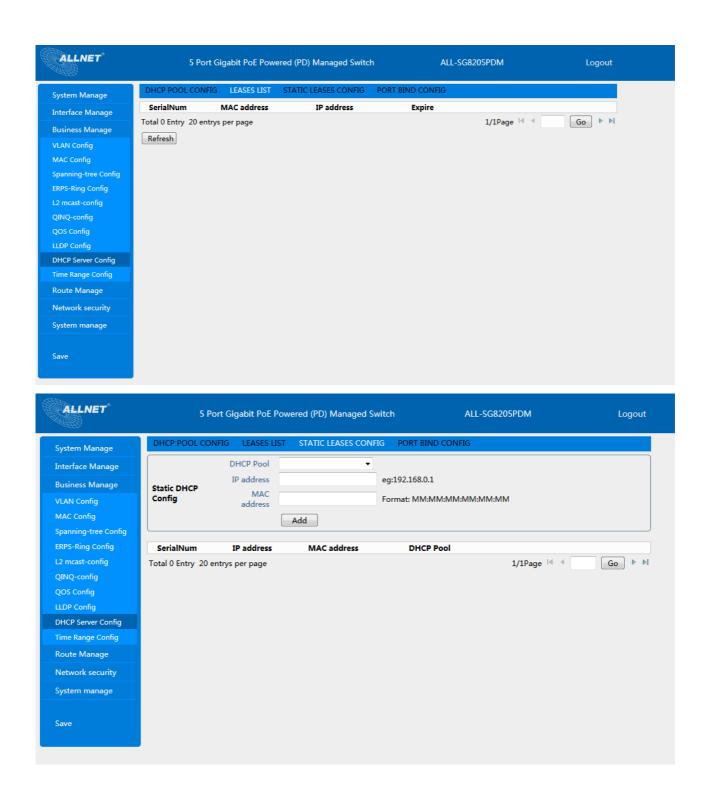
After successful configuration, view adjacent LLDP information in the upper right LLDP neighborhood

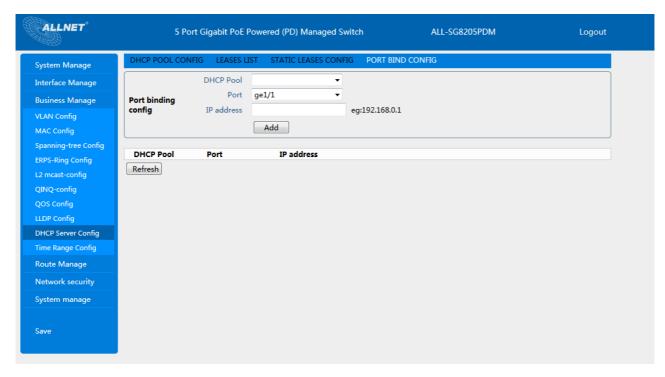


5.3.8 DHCP Server Config

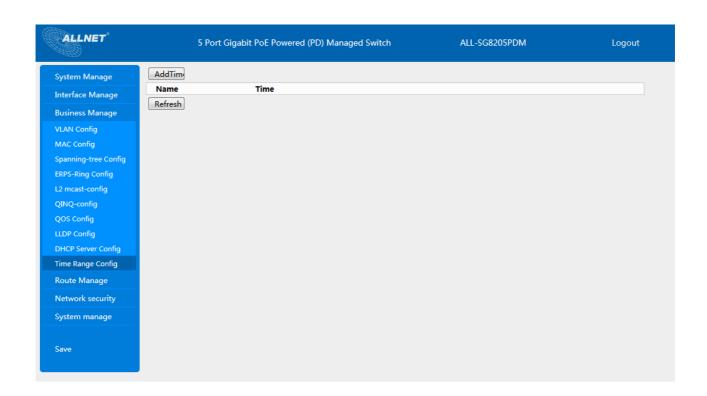
A computer DHCP server that manages the DHCP standard in a particular network is responsible for assigning IP addresses when a workstation logs in. And make sure that the IP address assigned to each workstation is different and that the DHCP server greatly simplifies some of the network management tasks that previously needed to be done manually.





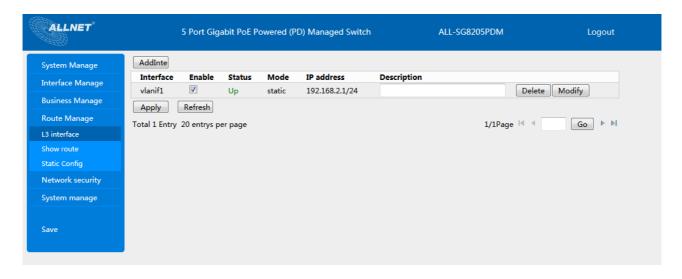


5.3.9 Time Range Config



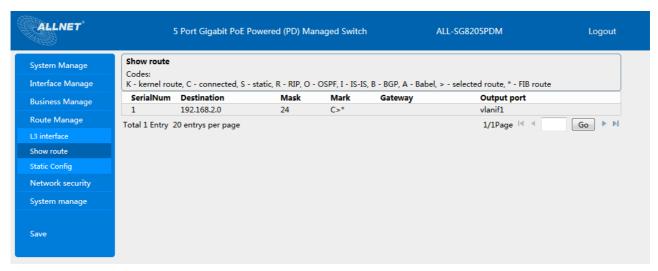
5.4 Route Manage

5.4.1 L3 interface set up

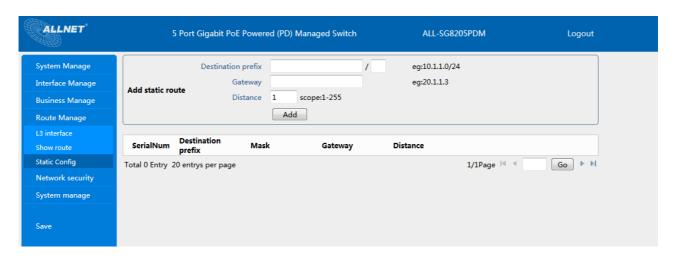


5.4.2 show route

.



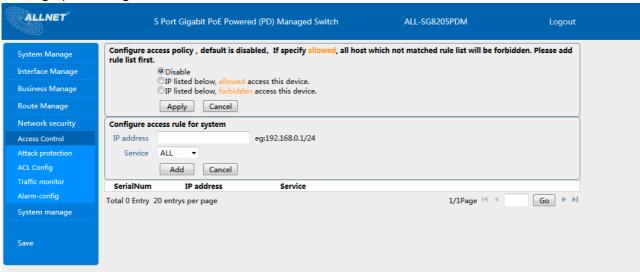
5.4.3 Static Config



5.5 Network Security

5.5.1 Access Control

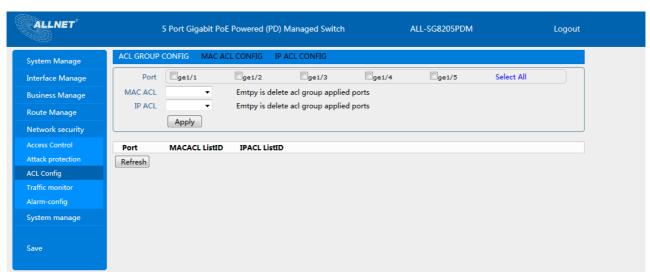
Message processing



5.5.2 Attack protection



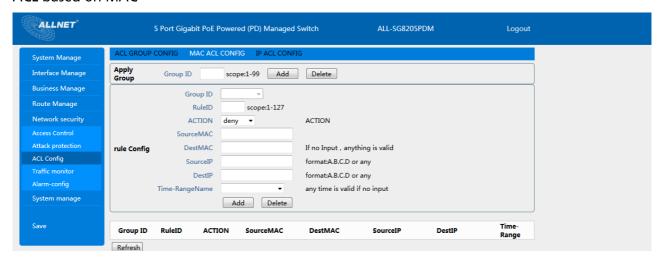
5.5.3 ACL Config



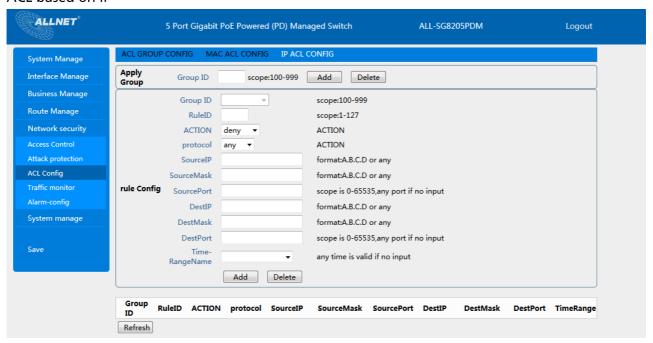
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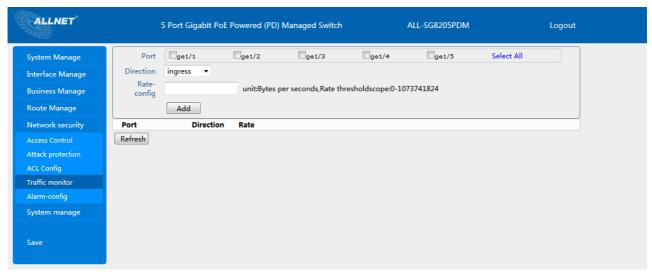
ACL based on MAC



ACL based on IP



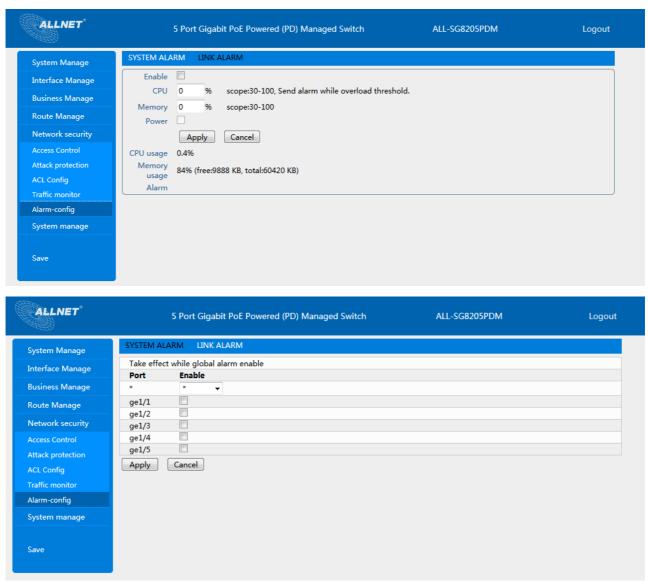
5.5.4 Traffic monitor



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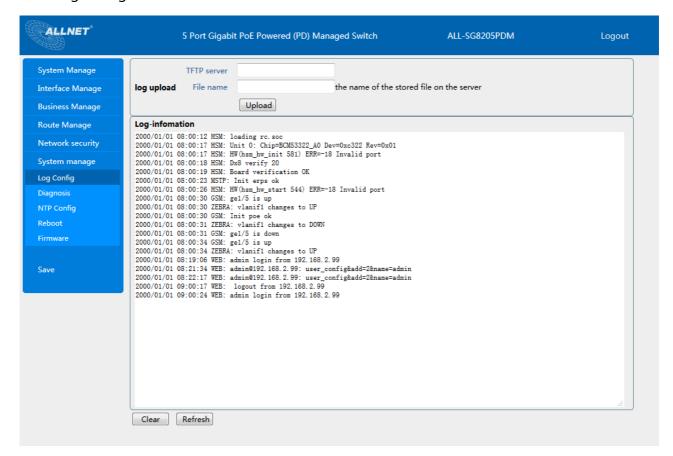
5.5.5 Alarm-config

This page contains system alarm link alarm



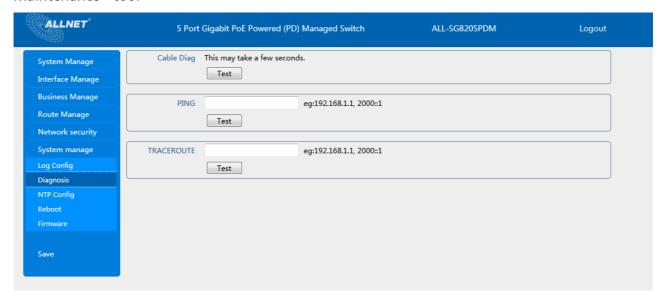
5.6 System management

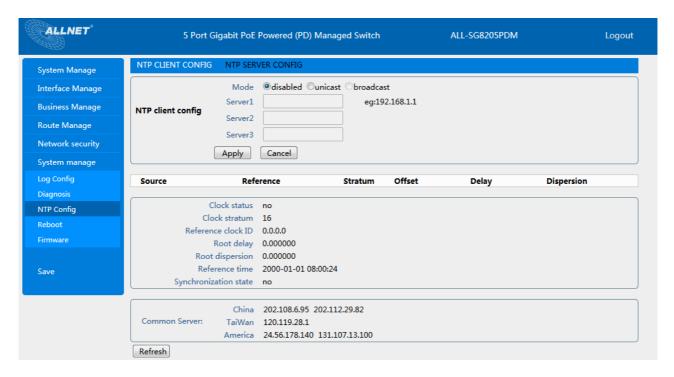
5.6.1 Log Config



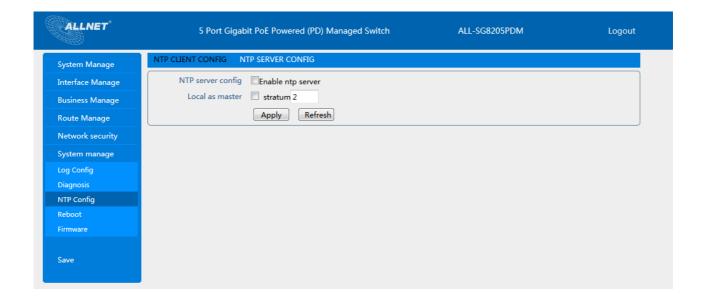
5.6.2 Diagnosis

Maintenance tool



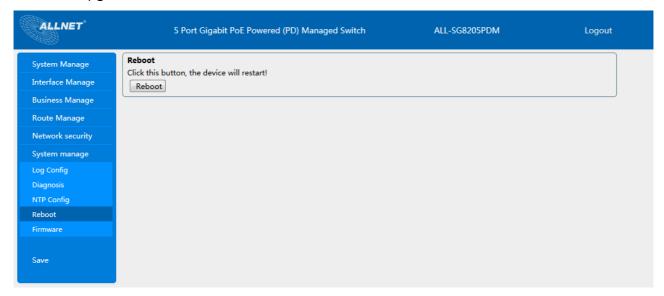


5.6.4 Reboot

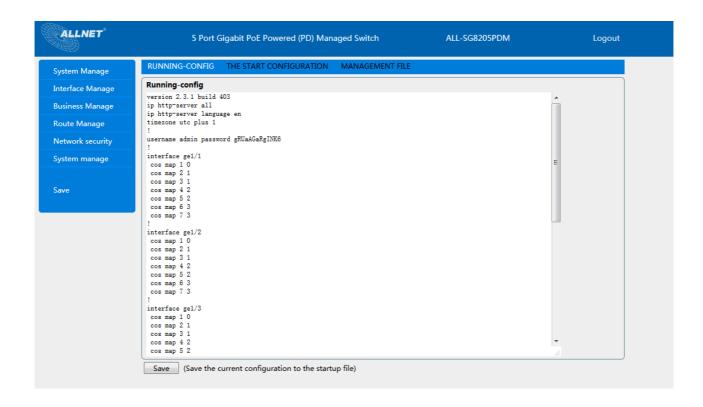


5.6.5 Firmware

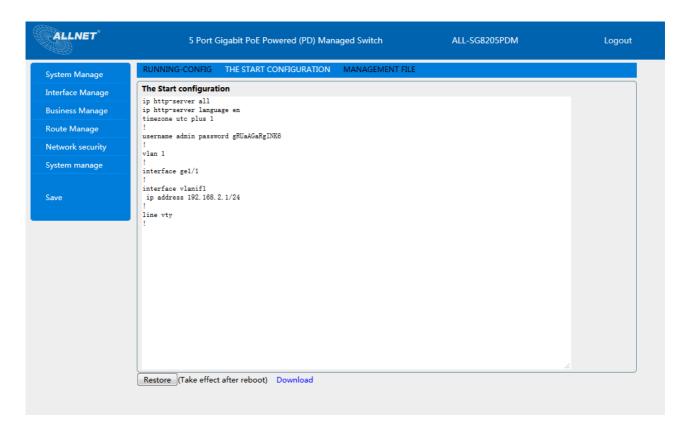
Firmware upgrade



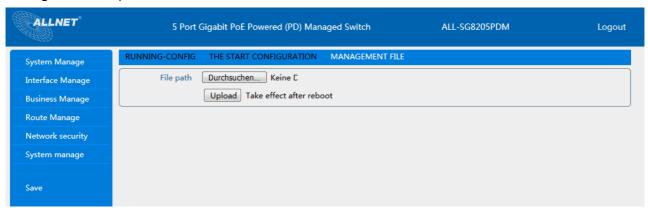
Configuration saves



Startup configuration



Configuration import



5.7 Save

After configuring the switch, you must choose to save the configuration

5.8 Hardware Specifications

Model	4GE (PoE) +1G (PD) ALL-SG8205PDM
Standard	IEEE 802.3、IEEE 802.3u、IEEE 802.3ab 、IEEE 802.3z、IEEE 802.3x、IEEE 802.1X、IEEE 802.1q 、IEEE 802.1p、IEEE 802.1d 、IEEE 802.1w、IEEE 802.3ad IEEE802.3af、IEEE802.3at
Network - Media(Cable)	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e,6 cable (≤100m)
MAC Address Table	8K, Auto-learning, Auto-aging
Transfer mode	Store-and-Forward
Frame Forward Rate	10Base-T: 14881pps/Port 100Base-TX: 148810pps/Port 1000Base-T/X: 1488095pps/Port
Switching Capacity	10Gbps
Dimensions (L*W*H)	168×93×32mm
Fan	Fanless
Power supply	DC 55V/1.1A(Max)
PoE Port	Port1~4
PoE Power on RJ45	Mode A 1/2(+),3/6(-)
PoE Power Output	Voltage: 55V DC Power: 32W(Max)
PoE Power Budget	55W
Temperature	Operating Temperature: 0° C ~ 40° C (32° F ~ 104° F) Storage Temperature: -40° C ~ 70° C (-40° F ~ 158° F)
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing

ALLNET GmbH Computersysteme declares that the device **ALL-SG8205PDM** is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU. The Declaration of conformity can be found under this link: http://ce.allnet.de/

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Email: info@allnet.de



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- Do not use your device during a thunderstorm. There may be a risk of electric shock brought about by lightning.
- Do not expose your device to dust or corrosive liquids.
- Do not use this product near water sources.
- Make sure to connect the cables to the correct ports.
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