



QSW-3410

USER MANUAL

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3



Packaging list:

- The L2 Managed Switch x1 Power Cord x1 User Guide/CD x1 Warranty card x1 tion accessories kit x1



Part One Hardware Installation Guide

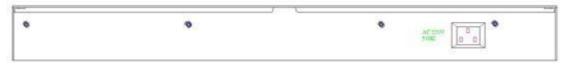
Chapter 1 Product Instruction

1.1 Introduction

- 1) 3410-10T: 8*10/100/1000M Base-T ports;2*1000 Base-X SFP; 1*Console port.
- 2) 3410-10T-POE: 8*10/100/1000M PoE ports,2*1000 Base-X SFP;1*Console port.

Please read through this User Guide before operating the QSW-3410.

1.2 Rear Panel



Picture 1.3.1 Rear Panel

Power Socket: Three-core power socket is adopted, please connect female head of power cord to the socket, and connect the AC power supply with male head.

Chapter 2 Preparations before Instruction

2.1 Precautions

Please read the following precautions carefully before operation, to avoid damaging the device or causing body injuries.

- 1). Please remove the power socket before cleaning the switch. Don' wipe the switch with wet cloth or wash the switch with liquid.
- 2). Don't stock the device in damp environment or near water, to avoid water or moisture penetrating into the inner device.
- 3). Don't put the device on a unstable box or desk, the device will get damaged from falling.
- 4). Please keep good ventilation indoor, and make sure the heat dissipation function of switch works well. 5). The switch only works normally in suitable voltage. Please check the working voltage first.
- 6). Please don't open the switch enclosure randomly, especially when the switch is powered on, there is risk of electric shock.
- 7). Please wear anti-static wrist strap when change the interface board, to avoid the static electricity damage the board.

2.2 Check Installation Environment

The switch is for indoor use only, please pay attention to the following problems when install the switch in a cabinet or put the device directly on the desktop.

- 1) The air vents of switch must have enough space to dissipate the heat inside enclosure.
- 2) A good heat dissipation system in the cabinet or on the desktop.
- The cabinet or desktop strong enough to support the weight of switch and installation accessories.
- 4) Safe ground connection for the cabinet or desktop.

2.3 Installation Tools

- 1) Flathead screw driver
- 2) Cross screw driver



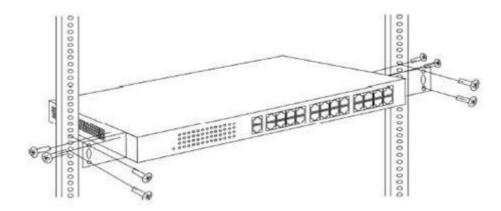
3) Anti-static wrist strap

Chapter 3 Installation

3.1 Install the Switch

3.1.1 Install the switch on a 19 inch standard cabinet

- 1) First fix the provided two L-shaped brackets on the two sides of switch.
- 2) Fix the switch on the rack with screws (screws are not provided).



Picture 3.1.1 Cabinet Installation

3.1.2 Install the switch on the desktop

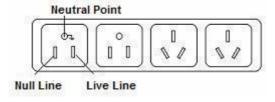
When there is no 19 inch standard cabinet, the switch is usually put on clean desktop. The operation is easier, please follow the below instructions:

- 1) Keep the desktop stable and safely grounded.
- 2) Set aside 10cm space around switch for heat dissipation.
- 3) Don't put any heavy device on the switch.

3.2 Connect the power cord and grounded cord

3.2.1 Select of AC Power Socket

The neutral one-phase 3-wire power socket is advised to adopt, or the multifunctional PC power socket. The neutral point of power supply must be well grounded, please check the grounded power supply before operation.



Picture 3.2.1 one-phase 3-wire power socket

3.2.2 Connection of AC power cord

Step one: please connect one end of power cord to the power jack on the switch rear panel,



Connect the other end to the AC power socket.

Step two: check the power indicator(PWR) on the front panel, if the LED is on, connection is Successful.

3.3 Test after Installation

Make sure the working voltage is the same with the rated voltage of switch. Check the connection of grounded cord.

Check the connection of configuration cable and power input cord.

If the interface cable is partly deployed outdoor, please check the connection of antithunder AC power strip and interface anti-thunder device.



PART TWO WEB CONFIGURATION GUIDE

Chapter 1 User Login

QSW-3410 smart switch adopt Web-based interface management, the default IP is 192.168.255.1. Please make sure the IP address of PC is in the same network segment with that of switch,or the PC can't access to manage the switch. After the setting of IP address, please input 192.168.255.1 in the browser to access the configuration interface of switch.

The Web management interface consists of five parts, which are switch status, basic configuration, advanced configuration, network security, system maintenance.



Picture 1.1.1 Login Page

Enter user password in the above login page, the default password is admin. The system only support single user login, other logins will be refused until the user logs out.

If IP address conflict occurs, it suggests the latest user didn't log out successfully. Please reboot the device or try to log in again180s later.



It is advised to reset the IP address and password in first login, and make sure the switch is not configured in the same network segment with DHCP server or Internet Gateway device.

Chapter 2 Switch Status

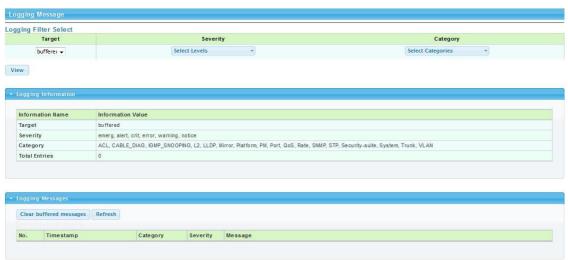
2.1 System Information

Information Name	Information Value		
Device ID	QSW-3410-10T		
HW Version	V1.1.0		
MAC Address	00:1F:CE:F5:79:41		
Series Number	C201031181630033		
Software Version	3.0.1-R1-BETA2		
Compiling Time	Fri Apr 8 16:08:47 CST 2016		
Running Time	0 days, 0 hours, 8 mins, 3 secs		

Picture 2.1.1 System Information

Device status can be checked in the above page, which contains: Device Model number(equipment type), PCB/HW Version, MAC Address, Serial Number(System Object ID), Firmware Version, Firmware Updated Date, System Running Time(System Up Time).

2.2 Logging Message

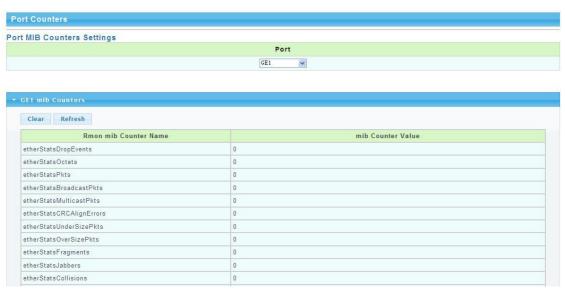


Picture 2.2.1 Logging Message

System log can be checked in above page. Maintenance technicians can check the history system log.



2.3 Port Counters

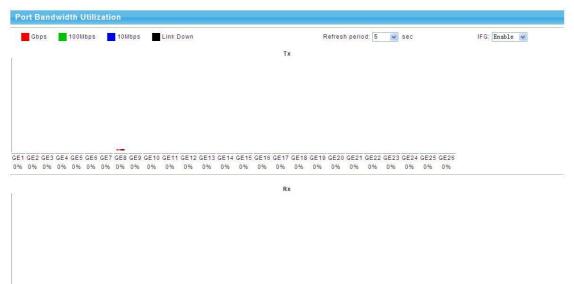


Picture 2.3.1 Port Counters

The above picture shows switch port statistics. Users can check the sent/received bytes,sent/received packets, wrongly sent/received packets. If there are too many wrong packets, it suggests the port has very poor working performance, the user need to examine the connection of network cable or the partner network card.

The current software version doesn't support real-time statistics refresh, please click "Refresh" button to get new statistics.

2.4 Port Status(Port Bandwidth Statistics)

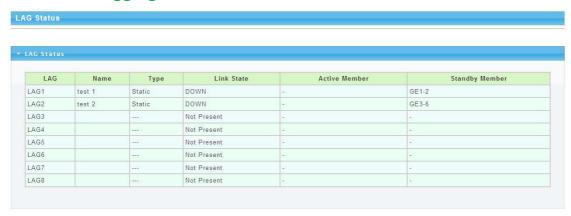


Picture 2.4.1 Port Bandwidth Statistics

This page shows port bandwidth status. Users can check egress/ingress bandwidth in this page,including 1000Mbps, 100Mbps, 10Mbps.



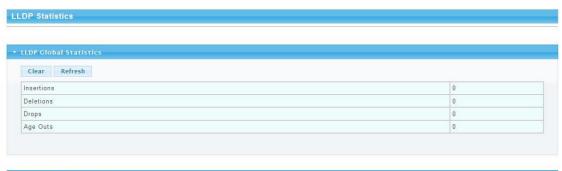
2.5 Link Aggregation

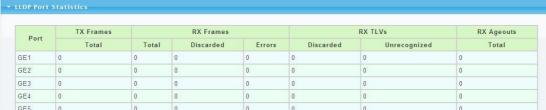


Picture 2.5.1 Link Aggregation

In above Link Aggregation page, user can check the port aggregation information. Like aggregator group(LAG), link state, aggregator group member state(active/standby).

2.6 LLDP Statistics



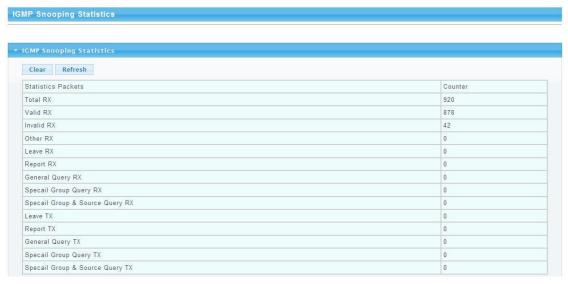


Picture 2.6.1 LLDP Statistics

LLDP information can be checked in above page. When enable the LLDP(Link Layer Discovery Protocol) function, LLDP information of switch ports can be checked here.



2.7 IGMP Statistics



Picture 2.7.1 IGMP Statistics

When the IGMP snooping function is enabled, IGMP information can be checked in above page.

2.8 STP Statistics



Picture 2.8.1 STP Statistics

In above STP statistics page, users can check the BPDU packets of every port and every link aggregation STP.

2.9 MAC Address Table





Picture 2.9.1 MAC Address Table

MAC address table and configuration can be checked in above page, users can add the showed dynamic MAC addresses to static MAC table.

Chapter 3 Basic Configuration

3.1 IP Configuration



Picture 3.1.1 IP configuration

The above IP address configuration page can be used to configure the IP address of device management interface "Interface Vlan 1". The default IP address, subnet mask and gateway will be showed in the page. When revise the configuration, please press "save" to confirm new configuration. Press "reset" to back to original configuration.

Above configuration need to be done under default "Static" state, if switch the IP address mode to DHCP, IP address will be get dynamically. Please record the new IP address for future login.

Notice: Don't modify the subnet mask unless exceptional case, login problem will be caused by improper modification.

3.2 Account Configuration





Picture 3.2.1 Account configuration

Login password can be revised in this page, please remember the new password for future login.

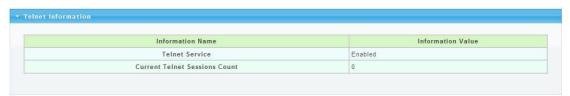
3.3 Logging Setting



Picture 3.3.1 Logging Setting

System log configuration is checked in above page. Remote log server can be configured, system log can be saved on the remote server as backup use. Enable or disable the remote backup function in this page, "server IP address" need to be entered manually.

3.4 Telnet Configuration



Picture 3.4.1 Telnet Information

Please enable Telnet function in this page. When Telnet function enabled, the switch can be remotely managed by Telnet.



3.5 Port Setting



Port	Description	Enable State	Link Status	Speed	Duplex	FlowCtrl Config	FlowCtrl Status
GE1	Edit	Enabled	DOWN	1000M	Auto	Disabled	Disabled
GE2	Edit	Enabled	DOWN	1000M	Auto	Disabled	Disabled
GE3	Edit	Enabled	DOWN	Auto	Auto	Disabled	Disabled
GE4	Edit	Enabled	DOWN	Auto	Auto	Disabled	Disabled
GE5	Edit	Enabled	DOWN	Auto	Auto	Disabled	Disabled
GE6	Edit	Enabled	DOWN	Auto	Auto	Disabled	Disabled
GE7	Edit	Enabled	DOWN	Auto	Auto	Disabled	Disabled
GE8	Edit	Enabled	UP	A-1000M	A-Full	Disabled	Disabled

Picture 3.5.1 Port Setting

Port Status: The user can enable or disable a port in this page. Click "Enable" to open the port, click "Disable" to close the port, the default setting is "Enable".

Port Mode: 6 modes can be configured:Auto-negotiation,10 Half,10 Full,100 Half, 100 Full and1000 Full. Default mode is Auto-negotiation, can be changed in pull-down list.

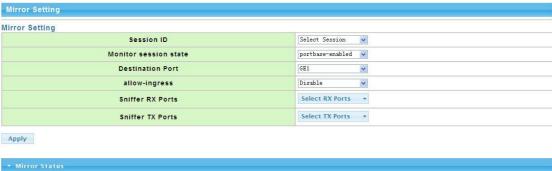
Flow Control: This function is defaulted closed, open it when needed.

Loop Detection:The function is defaulted closed, open it when needed.A port will be blocked to cut the loop when loop is detected.(Notice: the port link indicator in front panel will be still on when the port is blocked, for the physic connection is existed; while the link indicator on the top of web management pages will be off.)

Chapter 4 Advanced Configuration



4.1 Port Mirror Configuration



Session ID	Destination Port	Ingress State	Source TX Port	Source RX Port
1	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

Picture 4.1.1 Port Mirror Configuration

Users can do Port Mirror Configuration in above page. Port mirroring is used on a network switch to send a copy of network packets or data traffic from some ports (or an entire VLAN) to a network monitoring connection on specified switch port. The original port is called Source Port, and the specified port is Mirroring Port. This is commonly used for network appliances that require monitoring of network traffic without influencing the normal working of every port, it's a convenient online-monitoring function.

All ports have mirroring function, but only one port can be configured as Mirroring Port. In the same system, there is only one mirroring port, while more than one Source Ports can be existed. When a port is configured as mirroring port, its corresponding port can't be configured as source port.

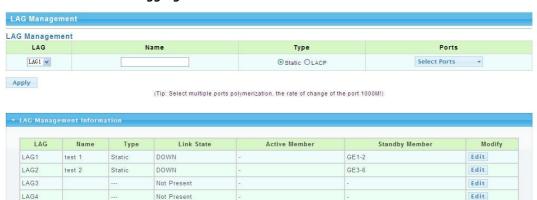
4.2 Port Aggregation

4.2.1 Static Aggregation

Not Present

Not Present

Not Present



Picture 4.2.1 Static Aggregation

Edit

Edit

Edit

QSW-3410 switch support 8 aggregation groups, each group contains maximum 8 ports. The members in the same aggregation group should have same configuration for port forwarding rate mode and VLAN distribution.

If LACP function applied for some ports, then static aggregation can't be configured.



LAG5

LAG6

LAG7

Notice: Static aggregation can't be configured when LACP function enabled.

4.2.2 LACP Setting



ACP Port Information					
Port Name	Priority	Timeout			
GE1	1	Long			
GE2	1	Long			
GE3	1	Long			
GE4	1	Long			
GE5	1	Long			
GE6	1	Long			
GE7	1	Long			
GE8	1	Long			

Picture 4.2.2 LACP Setting

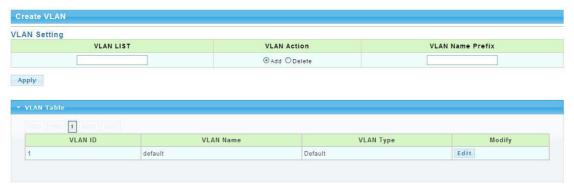
When the LACP protocol is on, the aggregated devices interactively gather information through LACP. According to the parameters and status of each device, automatically receive and dispatch Data of matchable link aggregation. When the Aggregation is formed, switches keep in an aggregation link status, switches automatically adjusts link aggregation or dissolute when configuration changes.

If the port is configured as static aggregation, the dynamic LACP will be not available.

Notice: Static aggregation LACP function can't be used together.

4.3 VLAN Management

4.3.1 VLAN Setting



Picture 4.3.1 VLAN Setting

VLAN can be created or deleted in above page. Users can create a new VLAN and give a name to the VLAN.



4.3.2 VLAN Port Status



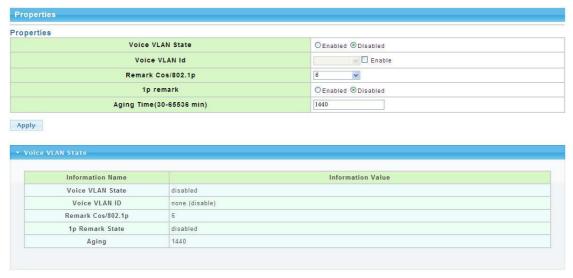
Picture 4.3.1 VLAN Port Status

Port features can be configured in above page. Users can create a VLAN and add ports to the VLAN list with specified mode. VLAN features and port parameters can be configured.

Ingress Filtering: enable ingress filtering function to abandon or forward unmatched VLAN packets. This function is default disable, the unmatched packet will be received. **Membership type:** tag refers to the port will receive tagged packets(and the VLAN ID in for tagged packet is not "0"); untag refers to the port receive untagged packets only.

4.4 Voice VLAN

4.4.1 Voice VLAN



Picture 4.4.1 Voice Vlan

Voice VLAN is the VLAN for voice data flow. Create a Voice VLAN and add the ports connected with voice devices to Voice VLAN, Voice data flow can be centrally transmitted in Voice VLAN. Users can configure special QoS(Quality of Service) for the



voice data flow, like configure a higher transmitting priority class to ensure a high quality connection.

4.4.2 Voice VLAN OUI



Picture 4.4.2 Voice Vlan OUI

Voice VLAN signify mode can be configured in this page, like Siemens AG phones. Cisco phones. H3C phones

4.5 Multicast Configuration



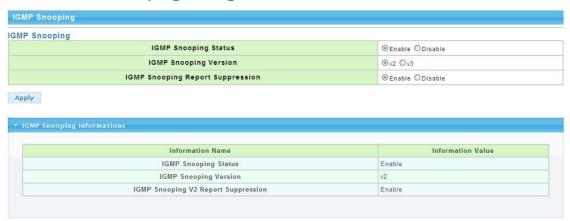
Picture 4.5.1 Multicast Configuration

MLD Snooping is short for Multicast Listener Discovery Snooping, which is IPv6 multicast control mechanism for Layer 2 devices. The function is used to manage and control IPv6 multicast.

Multicast snooping configuration can be made in above page, enable or disable multicast snooping and define multicast snooping address range.



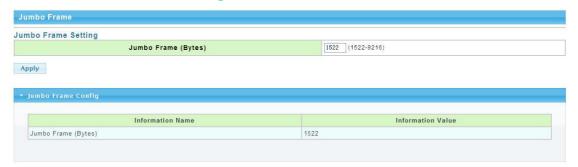
4.6 IGMP Snooping Configuration



Picture 4.6.1 IGMP Snooping

IGMP snooping configuration can be made in above page, enable or disable IGMP snooping and define IGMP snooping address range.

4.7 Jumbo Frame Configuration



Picture 4.7.1 Jumbo Frame Configuration

Generally, the max frame size for packet is 1518 Bytes, when packet is larger than this size, it will be processed in batch, 1518 Bytes as a unit. And users can also set a Jumbo Frame limitation in this page(from 1522 to 9216 Bytes), enable Jumbo Frames transmitted smoothly, reduce the load.

4.8 Static MAC Address Table



Picture 4.8.1 Static ARP Table

Static MAC address configuration can be manually made in this page. MAC items can be added according "port", "VLAN ID", "MAC address" and "IP address".



4.9 Dynamic MAC Address Configuration

Dy	ynamic Address Setting				
Dyı	namic Address Setting				
Aging Time		300 (Range: 10 - 630)	300 (Range: 10 - 630)		
	pply				
	Dynamic Address Status				
	Information Name	Information Value			
	Aging time	300			

Picture 4.9.1 Dynamic MAC Address Configuration

In above dynamic address setting page, users can check the aging time of MAC address.

4.10 LLDP Configuration



Config Name

Config Name

Config Value

LLDP Enabled

LLDP DU Disable Action

Transmission Interval

Holdtme Multiplier

Reinitialization Delay

Transmit Delay

2 Secs

Transmit Delay

2 Secs

Picture 4.10.1 LLDP Configuration

QSW-3410 switch support LLDP(Link Layer Discovery Protocol), which can define switch capacity, management address, device tags and port tags as different(TLV(type/length/value) and save them in LLDPDU (Link Layer Discovery Protocol Data Unit). These information will be released to the direct-connected neighbor device, neighbor devices will save these information based on MIB(Management Information Base) . These information will be used for network management system examination or judge link communication condition.

LLDP information can be configured in above page, including transmission interval, hold time Multiplier, retransmission delay and transmission delay.

Enable LLDP or Disable LLDP can be configured. Users can also configure the information transmitted to neighbor devices, like port description, system name, system description, system property and management address.



4.11 SNMP Configuration

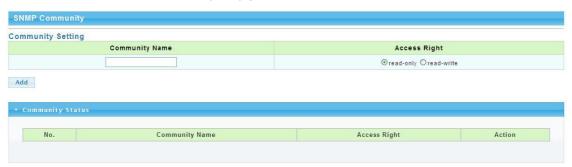
4.11.1 SNMP system configuration



Picture 4.11.1 SNMP System Configuration

SNMP(Simple Network Management Protocol) is Internet-standard protocol for managing devices on IP networks.It consists of a set of standards for network management, including anapplication layer protocol, a database schema, and a set of data objects. SNMP is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention.

4.11.2 SNMP Community configuration



Picture 4.11.2 SNMP Community Configuration

Configure SNMP common identifiers, switches with same community identifier can make unified management.

4.11.3 Trap Configuration



Picture 4.11.3 Trap Configuration

SNMP trap is a message used in SNMP protocol, the device can send a trap message to SNMP manager when they experience a problem, rather than waiting for the polling of SNMP manager.

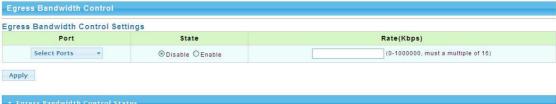


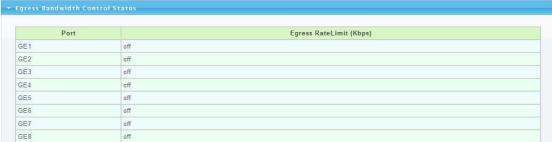
Chapter 5 Network Security

5.1 Port Limit Configuration

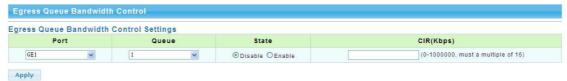


Picture 5.1.1 Ingress Bandwidth Control





Picture 5.1.2 egress Bandwidth Control







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Picture 5.1.3 Egress Queue Bandwidth

Switch Bandwidth can be configured in above pages. Configurations include ingress/egress flow control, flow control priority class.

5.2 Storm Control



Picture 5.2.1 Storm control



Picture 5.2.2 Storm control Port Configuration

Off (10000)

Off (10000)

Off (10000)

Off (10000)

Drop

Drop

Drop

Drop

Off (10000)

Off (10000)

Off (10000)

Off (10000)

After enable the global situation storm control, please continue with function configuration. The switch supports multiple storm control modes, like broadcast storm control, unknown multicast storm control and unknown unitcast storm control.



GE5

GE6

GF7

GE8

disabled

disabled

disabled

disabled

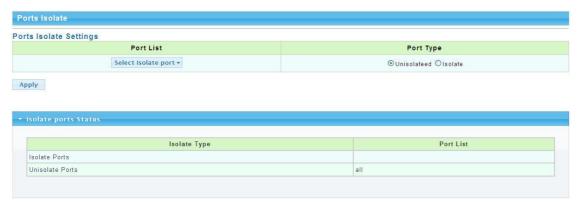
Off (10000)

Off (10000)

Off (10000)

Off (10000)

5.3 Port Isolation



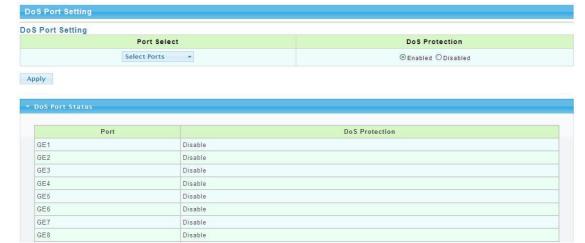
Picture 5.3.1 Port Isolation Configuration

In above port isolation page, isolated ports can be configured. Applying port isolation function to ensure port security.

5.4 DoS configuration



Picture 5.4.1 Global Dos Configuration



Picture 5.4.2 Dos Port Configuration



Dos is short for Denial of Service, what causes DoS problem is DoS attacks, which will block the normal network service. The most common DoS attacks are computer network bandwidth attack and connectivity attack. Please configure DoS information in above pages.

5.5 STP Configuration



Picture 5.5.1 STP Global configuration



Picture 5.5.2 STP Port configuration





Picture 5.5.3 STP Bridge Configuration

STP configurations can be made in above pages. Users can choose from STP and RSTP modes according to different network requirements.

Chapter 6 System Maintenance

6.1 Reboot Switch



Picture 6.1.1 Reboot Switch

Above page is used to reboot switch. When manage the switch, some configurations need to reboot the switch to take effect.

6.2 Factory Reset





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Picture 6.2.1 Factory Reset

The switch support factory reset, press "restore" button to back factory default settings, including all configurations, IP address and management password.

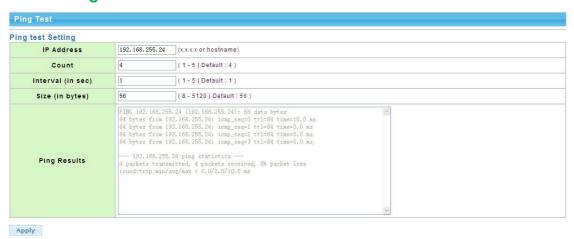
6.3 Firmware Upgrading



Picture 6.3.1 Firmware Upgrading

Current system software version can be checked in this page, and new software upgrade can be made.

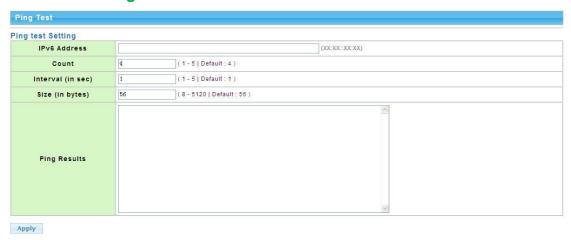
6.4 Ping Test



Picture 6.4.1 Ping Test Configuration

Ping test is to check if a specified Client can be reached, the function is the same with ping command under windows command lines. The IP addresses of switch and PC must be in same network segment.

6.5 IPv6 Ping Test

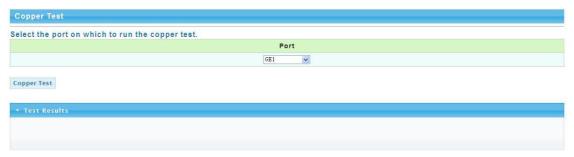


Picture 6.5.1 IPv6 Ping Test Configuration

Ping test is to check if a specified Client can be reached, the function is the same with ping command under windows command lines. The IP addresses of switch and PC must be in same network segment.



6.6 Network Cable Test



Picture 6.6.1 Network Cable Test

Users can test the twisted pair cable working status. Please select test ports then press "cooper test" to check the working status.

