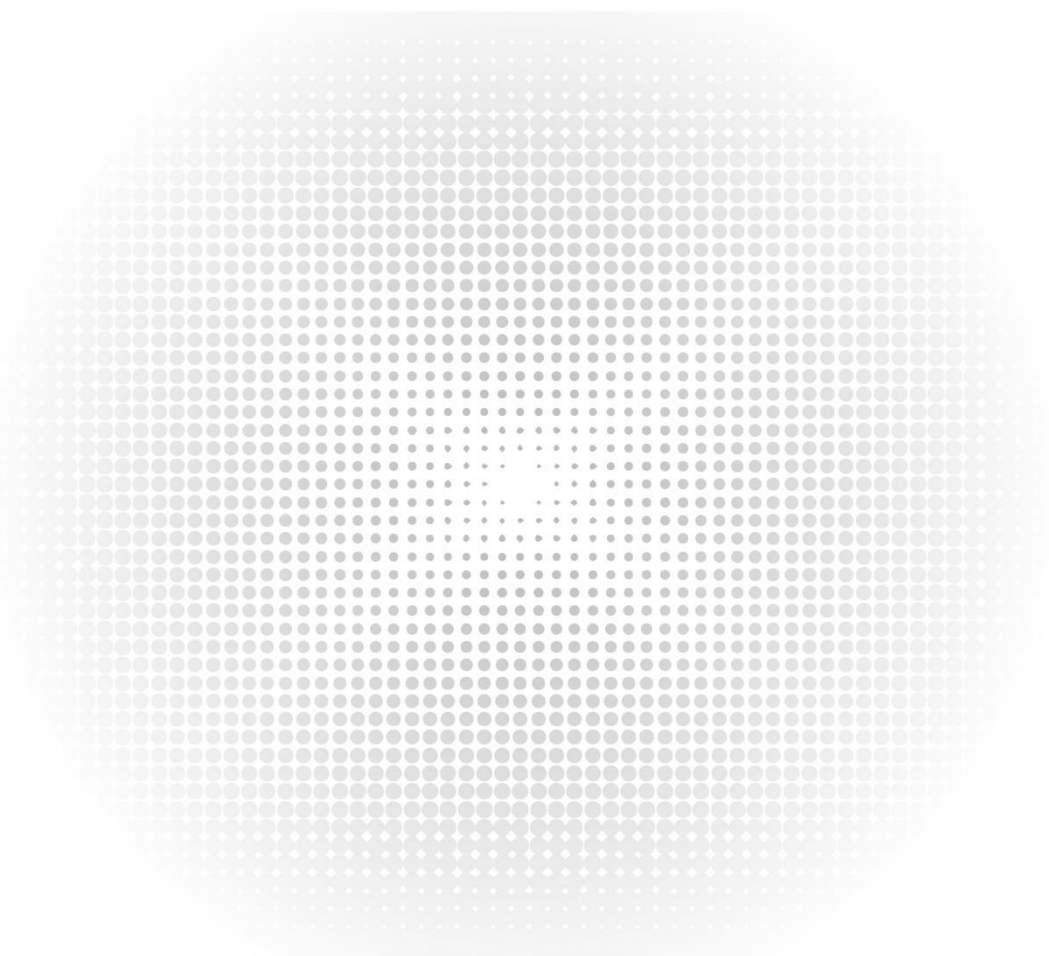


S2805S Series Switches

Web-based Configuration Guide

Models: S2805S-8TF; S2802S-8TF-P; S2805S-24TF; S2805S-24TF-P



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Chapter 1 How to Login the Switch

1.1 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.

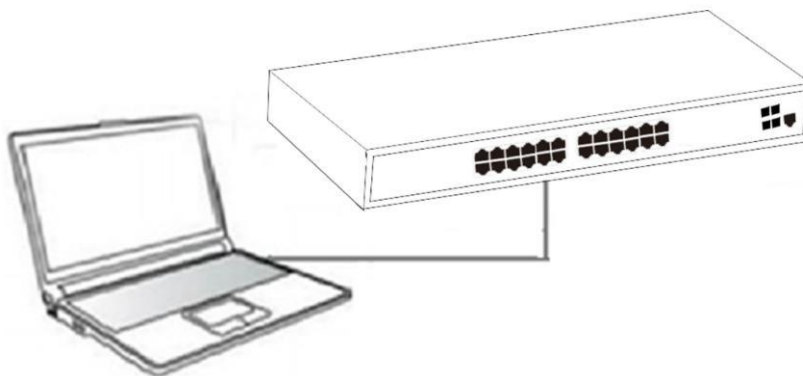


Figure 6 - Connect PC to Switch

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

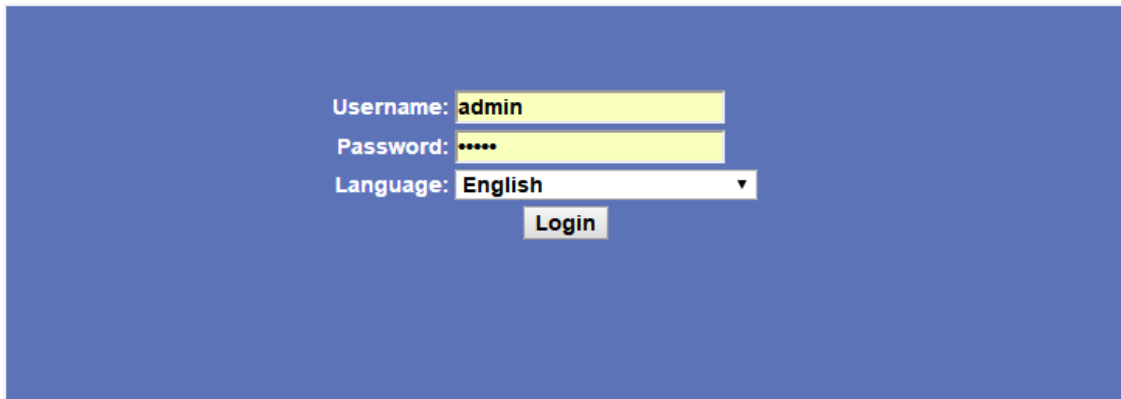
1.2 How to Login the Switch

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	192.168.1.1
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://192.168.1.1` and then press "Enter". The Switch login window appears, as shown below.



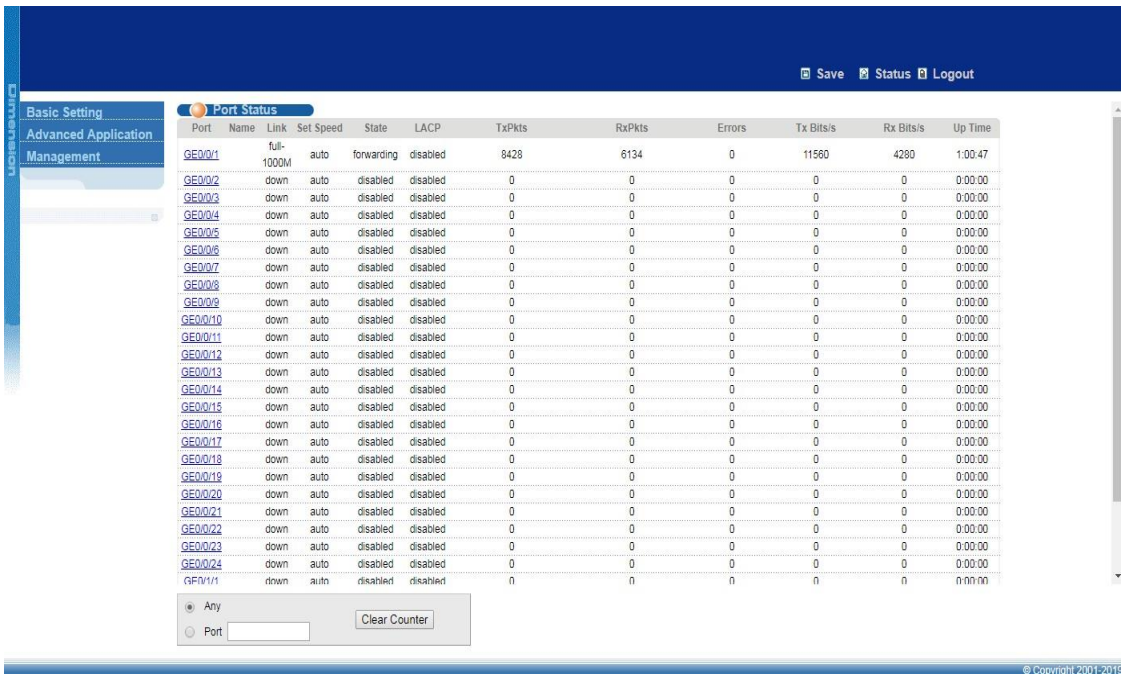
Username:

Password:

Language:

Figure 7- Login Windows

Chapter 1 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



Save Status Logout

Basic Setting
Advanced Application
Management

Port Status

Port	Name	Link	Set Speed	State	LACP	TxPkts	RxPkts	Errors	Tx Bits/s	Rx Bits/s	Up Time
GE0/0/1		full-1000M	auto	forwarding	disabled	8428	6134	0	11560	4280	1:00:47
GE0/0/2		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/3		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/4		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/5		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/6		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/7		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/8		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/9		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/10		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/11		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/12		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/13		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/14		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/15		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/16		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/17		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/18		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/19		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/20		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/21		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/22		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/23		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/24		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/1/1		down	auto	disabled	disabled	0	0	0	0	0	0:00:00

Any
Port

Clear Counter

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Chapter 2 WEB Configuration Guide

Switch configuration interface consists of 3 main areas, areas for the status bar at the top, the area on the left menu bar, right the main configuration window. Select the different functions in the function menu bar, you can modify all settings in the main configuration window.

The screenshot displays the 'Port Status' page in the switch configuration interface. The top navigation bar includes 'Save', 'Status', and 'Logout' buttons. The left sidebar shows the main menu with 'Basic Setting', 'Advanced Application', and 'Management' options. The 'Port Status' page features a table with the following columns: Port, Name, Link, Set Speed, State, LACP, TxPkts, RxPkts, Errors, Tx Bits/s, Rx Bits/s, and Up Time. The table lists 24 ports (GE0/0/1 to GE0/0/24) and one aggregate port (GFR0/1/1). Port GE0/0/1 is the only one with a 'full' link speed and 'forwarding' state, showing 8428 TxPkts and 6134 RxPkts. All other ports are 'down' with 'disabled' LACP. Below the table, there are radio buttons for 'Any' (selected) and 'Port', and a 'Clear Counter' button. The footer indicates '© Copyright 2001-2019'.

Port	Name	Link	Set Speed	State	LACP	TxPkts	RxPkts	Errors	Tx Bits/s	Rx Bits/s	Up Time
GE0/0/1		full-1000M	auto	forwarding	disabled	8428	6134	0	11560	4280	1:00:47
GE0/0/2		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/3		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/4		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/5		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/6		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/7		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/8		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/9		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/10		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/11		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/12		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/13		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/14		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/15		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/16		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/17		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/18		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/19		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/20		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/21		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/22		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/23		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/24		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GFR0/1/1		down	auto	disabled	disabled	0	0	0	0	0	0:00:00

2.1 Basic Setting

Choose Basic Setting, and the following page appears. There are "System Info", "General Setup", "IP Setup", "Port Setup", configuration web pages.

The screenshot shows the 'Basic Setting' page with a blue header containing the text 'Basic Setting', 'Advanced Application', and 'Management'. Below the header, there are four light blue buttons with rounded corners, each containing a navigation link: 'System Info', 'General Setup', 'IP Setup', and 'Port Setup'.

2.1.1 System Info

Selecting "Basic Setting>System Information settings" in the navigation bar, you can view the basic information of System and configure the IP address and System name.

Basic Setting

Advanced Application

Management

System Info

General Setup

IP Setup

Port Setup

DHCP server

DHCP-Relay

Port Information

System information settings

Product description	S2805S-8TF-P
bootrom version	1.15
Software version	S2805S-8TF-P V01D01P02SP11
Product serialNo	CG2204269618N00148
MAC address	64:9d:99:b0:03:f5
IP address	10.36.220.173 Setting
Subnet mask	255.255.255.0
Default gateway	0.0.0.0
System startup time	5-Days 18-Hours 3-Minutes 40-Seconds
System application	running default application
System name	S2805S-8TF-P Setting
System location	factory formal application
Web page timeout (in minute)	20

【Parameter Description】

Parameter	Description
IP Address	The management IP of Switch
System name	System name

【Instructions】

You can view and configure Running System status.

2.1.2 General Setup

Selecting "Basic Setting>General Setup" in the navigation bar, you can view the basic information of Switch, Such as System description and so on. You can also modify System name, System contact and System location.

Basic Setting

Advanced Application

Management

System Info

General Setup

IP Setup

Port Setup

DHCP server

DHCP-Relay

Port Information

General Setup

System description	Switch
System object ID	1.3.6.1.4.1.52642.10.1.3.68.2
System port quantity	10
System startup time	5-Days 18-Hours 5-Minutes 42-Seconds
System name	S2805S-8TF-P
System location	factory formal application
System contact	sales@fs.com
Product description	S2805S-8TF-P

Refresh

Modify

【Parameter Description】

Parameter	Description
System name	System name
System contact	Including company or related URL

【Configuration example】

Such as: Setting System name as Switch.

Basic Setting
Advanced Application
Management

System Info
 General Setup
 IP Setup
 Port Setup
 DHCP server
 DHCP-Relay
 Port Information

General Setup

System description: Switch
 System object ID: 1.3.6.1.4.1.52642.10.1.3.68.2
 System port quantity: 10
 System startup time: 5-Days 18-Hours 5-Minutes 42-Seconds
 System name: Switch
 System location: factory formal application
 System contact: sales@fs.com
 Product description: S2805S-8TF-P

Refresh Modify

2.1.3 IP Setup

Selecting "Basic Setting>IP Setup" in the navigation bar, you can configure IP.

Basic Setting
Advanced Application
Management

System Info
 General Setup
IP Setup
 Port Setup

Vlan Interface [VlanInterfaceConf](#)

Creat:

Interface: vlan-interface
 Vlan ID: 1

Add Cancel Clear

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	VLAN-IF1	192.168.1.1	1	Up	☐

Delete Cancel

2.1.3.1 Vlan interface

Selecting "Basic Setting>IP Setup>Vlan interface" in the navigation bar, you can configure Vlan interface.

 **Vlan Interface**
[VlanInterfaceConf](#)

Create:

Interface	vlan-interface ▼
Vlan ID	1

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	VLAN-IF1	192.168.1.1	1	Up	☐

【Parameter Description】

Parameter	Description
Interface	Selecting the interface: vlan-interface Supervlan-interface
Vlan ID	You can specify the vlan ID
Name	The name of interface

2.1.3.2 Vlan interface Config

Selecting "Basic Setting>IP Setup>Vlan interface Config" in the navigation bar, you can configure Vlan interface Config.

【Default route configuration】

The following example demonstrate the default route setting:
switch(config)#ip route 0.0.0.0 0.0.0.0 x.x.x.x (x.x.x.x stands for gateway address)

Vlan Interface Config

[VlanInterface](#)

VLAN Interface Name List:

Interface Name	VLAN-IF1 ▼
Vlan ID	1

VLAN Interface Configuration:

Mode	Ip Address ▼
IP Address	0.0.0.0
NetMask Address	0.0.0.0
Override	☐

VLAN Interface List:

Index	Ip	Mask	Primary	Delete
1	192.168.1.1	255.0.0.0	☒	☐

【Parameter Description】

Parameter	Description
Interface name	Name of interface
Vlan ID	You can specify the vlan ID
IP Address	User login in Switch using the IP Address
Override	You can override former original primary IP or not

【Configuration example】

Such as: Setting IP address as 192.168.2.1 and mask as 255.255.255.0. And then selecting override.

Vlan Interface Config[VlanInterface](#)

VLAN Interface Name List:

Interface Name	VLAN-IF1 ▼
Vlan ID	1

Apply Cancel

VLAN Interface Configuration:

Mode	Ip Address ▼
IP Address	192.168.2.1
NetMask Address	255.255.255.0
Override	☒

Add Refresh

VLAN Interface List:

Index	Ip	Mask	Primary	Delete
1	192.168.1.1	255.0.0.0	☒	☐

Modify Delete Cancel

2.1.4 Port Setup

Selecting "Basic Setting>Port Setup" in the navigation bar, you can configure the related parameter of port.

Port basic settings

Port Number [Click for selecting]

1	3	5	7	9	11	13	15	17	19	21	23	25	27
2	4	6	8	10	12	14	16	18	20	22	24	26	28

Port basic settings Ethernet 1000M Port[1]

Port	Status	Link	Priority	Set speed	Mode	Actual speed	Port description (0-128 chars)
GE0/0/1	enable	up	0	auto	auto	full-1000M	
GE0/0/2	enable	down	0	auto	auto	unknown	
GE0/0/3	enable	down	0	auto	auto	unknown	
GE0/0/4	enable	down	0	auto	auto	unknown	
GE0/0/5	enable	down	0	auto	auto	unknown	
GE0/0/6	enable	down	0	auto	auto	unknown	
GE0/0/7	enable	down	0	auto	auto	unknown	
GE0/0/8	enable	down	0	auto	auto	unknown	
GE0/0/9	enable	down	0	auto	auto	unknown	
GE0/0/10	enable	down	0	auto	auto	unknown	
GE0/0/11	enable	down	0	auto	auto	unknown	
GE0/0/12	enable	down	0	auto	auto	unknown	
GE0/0/13	enable	down	0	auto	auto	unknown	
GE0/0/14	enable	down	0	auto	auto	unknown	
GE0/0/15	enable	down	0	auto	auto	unknown	
GE0/0/16	enable	down	0	auto	auto	unknown	
GE0/0/17	enable	down	0	auto	auto	unknown	

【Parameter Description】

Parameter	Description
Port	Port number
status	Choose whether to close link port
link	Status: Down up
priority	Set port priority, the range of 0-7
Set speed	Choose the following modes: full-100 half-100 auto-100 auto
Mode	Choose the following kinds: auto slave master
Actual speed	The actual speed of the port
Port description	The port is described

【Configuration example】

Such as: Configure the related parameters for port 1, Status is "enable", Priority is "1", Set speed is "auto", Mode is "auto", Port description is "port 1".

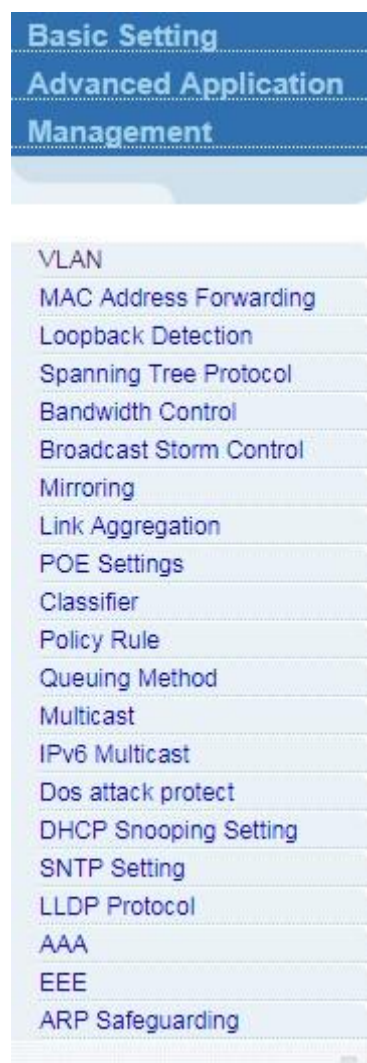
Port basic settings Ethernet 1000M Port[1]

Port	Status	Link	Priority	Set speed	Mode	Actual speed	Port description (0-128 chars)
GE0/0/1	enable	up	1	auto	auto	full-1000M	Port1

Refresh Modify

2.2 Advanced Application

Choose Advanced Application, and the following page appears. There are "VLAN", "MAC Address Forwarding", "Loopback Detection", "Spanning Tree Protocol", "Bandwidth Control", "Broadcast Storm Control", "Mirroring", "Link Aggregation", "POE Settings", "Classifier", "Policy Rule", "Queuing Method", "Multicast", "IPv6 Multicast", "Dos attack protect", "DHCP Snooping Setting", "SNTP Setting", "LLDP Protocol", "AAA", "EEE" and "ARP Safeguarding" configuration web pages.



2.2.1 VLAN

Selecting "Advanced Application>VLAN" in the navigation bar, you can configure VLAN.

[Basic Setting](#)
[Advanced Application](#)
[Management](#)

[VLAN](#)
[MAC Address Forwarding](#)
[Loopback Detection](#)
[Spanning Tree Protocol](#)
[Bandwidth Control](#)
[Broadcast Storm Control](#)
[Mirroring](#)
[Link Aggregation](#)
[POE Settings](#)
[Classifier](#)
[Policy Rule](#)
[Queuing Method](#)
[Multicast](#)
[IPv6 Multicast](#)
[Dos attack protect](#)
[DHCP Snooping Setting](#)
[SNTP Setting](#)
[LLDP Protocol](#)
[AAA](#)
[EEE](#)
[ARP Safeguarding](#)

[VLAN Status](#)

VLAN Search by VID

[VLAN Port Settings](#)
[Static VLAN](#)

The Number of VLAN: 1. Current Page: 1 of 1.

Index	VID	Elapsed Time	Status
1	1	0:01:43	Static

VID	Port Number													
	1	3	5	7	9	11	13	15	17	19	21	23	25	27
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U	U	U	U	U	U
VID	Port Number													
	2	4	6	8	10	12	14	16	18	20	22	24	26	28

Change Pages

2.2.1.1 VLAN Status

Selecting "Advanced Application>VLAN>VLAN Status", in the navigation bar, you can view VLAN status.

[VLAN Status](#)
[VLAN Port Settings](#)
[Static VLAN](#)

VLAN Search by VID

The Number of VLAN: 1. Current Page: 1 of 1.

Index	VID	Elapsed Time	Status
1	1	0:01:43	Static

VID	Port Number													
	1	3	5	7	9	11	13	15	17	19	21	23	25	27
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U	U	U	U	U	U
VID	Port Number													
	2	4	6	8	10	12	14	16	18	20	22	24	26	28

【Parameter Description】

Parameter	Description
VLAN Status	View all vlans configured in the device
VLAN Search by VID	Enter VID to view the specified VLAN

【Configuration example】

Such as: View the VLAN of VID as "1".

[VLAN Status](#)
[VLAN Port Settings](#)
[Static VLAN](#)

VLAN Search by VID

The Number of VLAN: 1. Current Page: 1 of 1.

Index	VID	Elapsed Time	Status
1	1	0:01:43	Static

VID	Port Number													
	1	3	5	7	9	11	13	15	17	19	21	23	25	27
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U	U	U	U	U	U
VID	Port Number													
	2	4	6	8	10	12	14	16	18	20	22	24	26	28

2.2.1.2 VLAN Port Settings

Selecting "Advanced Application>VLAN>VLAN Port Settings", in the navigation bar, you can set VLAN port.

VLAN Port Settings

[Static VLAN](#)
[VLAN Status](#)

Global GVRP
permit vlan

☐

PORT ID
port forbidden vlan

[Show Garp Information:](#)

Port	PVID	Acceptable Frame	Port Mode	Port GVRP	Ingress Check
*		All ▼	Hybrid ▼	☐	☒
Ethernet 1000M Port					
GE0/0/1	1	All ▼	Hybrid ▼	☐	☒
GE0/0/2	1	All ▼	Hybrid ▼	☐	☒
GE0/0/3	1	All ▼	Hybrid ▼	☐	☒
GE0/0/4	1	All ▼	Hybrid ▼	☐	☒
GE0/0/5	1	All ▼	Hybrid ▼	☐	☒
GE0/0/6	1	All ▼	Hybrid ▼	☐	☒
GE0/0/7	1	All ▼	Hybrid ▼	☐	☒
GE0/0/8	1	All ▼	Hybrid ▼	☐	☒
GE0/0/9	1	All ▼	Hybrid ▼	☐	☒
GE0/0/10	1	All ▼	Hybrid ▼	☐	☒
GE0/0/11	1	All ▼	Hybrid ▼	☐	☒
GE0/0/12	1	All ▼	Hybrid ▼	☐	☒
GE0/0/13	1	All ▼	Hybrid ▼	☐	☒
GE0/0/14	1	All ▼	Hybrid ▼	☐	☒
GE0/0/15	1	All ▼	Hybrid ▼	☐	☒
GE0/0/16	1	All ▼	Hybrid ▼	☐	☒
GE0/0/17	1	All ▼	Hybrid ▼	☐	☒
GE0/0/18	1	All ▼	Hybrid ▼	☐	☒

【Parameter Description】

Parameter	Description
PVID	The PVID of the port can be modified, the default port PVID is "1"
Acceptable Frame	Choose the following kinds: All Tagged only Untagged only
Port Mode	Choose the following modes:

Hybrid: The port can be either a tag member or untag member in a VLAN and can be a member port for multiple vlans.

Trunk: The port can only be an tag member in a VLAN and can be a member port for multiple vlans

Access: The port can only be a member of untag in VLAN and the port can only be in a VLAN.

Port GVRP	Select open or close GVRP, dynamic VLAN learning function, port mode must be Trunk mode
Ingress Check	Open port filtering function. If the port settings only receive the Tagged type of message, if the Ingress Check function is opened, the Untagged type of message will be discarded when the port receives the message of the untagged type of message, otherwise it can be forwarded. The default port filtering function opens.

【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: The PVID of port 1 is set to "1", the frame type is set to "All", the port mode is set to "Hybrid", and the port GVRP is not turned on and the entry inspection function is opened.

GE0/0/1 1 All Hybrid ☐ ☒

2.2.1.3 Static VLAN

Selecting "Advanced Application>Static VLAN" in the navigation bar, you can configure Static VLAN.

Static VLAN

[VLAN Port Settings](#)
[VLAN Status](#)

Current static VLAN

0001

Total 1 records

Port Number [\[Click for changing or selecting\]](#)

1	3	5	7	9	11	13	15	17	19	21	23	25	27
U	U	U	U	U	U	U	U	U	U	U	U	U	U
U	U	U	U	U	U	U	U	U	U	U	U	U	U
2	4	6	8	10	12	14	16	18	20	22	24	26	28

Port Number [\[Select all: - \[None\] T \[Tagged\] U \[Untagged\]\]](#)

VLAN List

Name

【Parameter Description】

Parameter	Description
VLAN List	VLAN Group ID
Name	VLAN Group name

【Configuration example】

Add and delete VLAN members

Such as: Adding a new VLAN, VLAN Group ID 120 contains non-untag member port 6, 8. Tag member port 18, 20. The user can modify the port member by clicking on the white area below the port number;

Static VLAN

[VLAN Port Settings](#)
[VLAN Status](#)

Current static VLAN

0001

Total 1 records

Port Number [\[Click for changing or selecting\]](#)

1	3	5	7	9	11	13	15	17	19	21	23	25	27
U	U	U	U	U	U	U	U	U	U	U	U	U	U
U	U	U	U	U	U	U	U	U	U	U	U	U	U
2	4	6	8	10	12	14	16	18	20	22	24	26	28

Port Number [\[Select all: - \[None\] T \[Tagged\] U \[Untagged\]\]](#)

VLAN List

Name

2.2.2 MAC Address Forwarding

Selecting “**Advanced Application>MAC Address Forwarding**”, in the navigation bar, you can configure MAC Address Forwarding.

MAC Address Forwarding

MAC Address: [] : [] : [] : [] : [] : []

VID: []

MAC Type: Static Mac

Port (No Blackhole Mac): []

Add Cancel

Port Number [unknown source mac packet drop settings]

1	3	5	7	9	11	13	15	17	19	21	23	25	27
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	4	6	8	10	12	14	16	18	20	22	24	26	28
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Port Number [Apply all: ☐]

Modify

Index	Active	MAC Address	VID	Port	Status	Delete
1	Yes	00:0a:6a:00:03:ee	1	cpu	static	Delete
2	Yes	94:05:b6:5d:2e:79	1	GE0/0/1	dynamic	Delete

DelAll Refresh

【Parameter Description】

Parameter	Description
MAC Type	MAC Type: Static MAC Dynamic MAC Blackhole MAC Permanent MAC

【Instructions】

Blackhole MAC: If a PC's MAC address is configured on a switch to be a blackhole MAC, then the PC's package will be discarded by the switch and not forwarded to the network.

【Configuration example】

1. MAC Address Forwarding

MAC Address Forwarding

MAC Address	00 : 01 : 33 : jt : dc : aq
VID	1
MAC Type	Static Mac
Port (No Blackhole Mac)	8

Add

Cancel

2. Unknown source mac packet drop settings.

Port Number [unknown source mac packet drop settings]

1	3	5	7	9	11	13	15	17	19	21	23	25	27
☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2	4	6	8	10	12	14	16	18	20	22	24	26	28

Port Number[Apply all: ☐]

Modify

2.2.3 Loopback Detection

Selecting "Advanced Application>Lookback Detection", in the navigation bar, you can configure lookback detection.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queueing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

Loopback Detection

Global State	☐ Enable ☒ Disable
Addr-type	☒ Multicast ☐ Broadcast
Action	☐ Discarding ☒ Shutdown ☐ None
Interval Time(s)	10
Recover Time(s)	60
Trap	☒ Enable ☐ Disable
Log	☒ Enable ☐ Disable

Apply

Cancel

Port	Active
*	☐
GE0/0/1	☐
GE0/0/2	☐
GE0/0/3	☐
GE0/0/4	☐
GE0/0/5	☐
GE0/0/6	☐
GE0/0/7	☐
GE0/0/8	☐
GE0/0/9	☐
GE0/0/10	☐
GE0/0/11	☐
GE0/0/12	☐
GE0/0/13	☐
GE0/0/14	☐
GE0/0/15	☐

2.2.4 Spanning Tree Protocol

Selecting "Advanced Application>Spanning Tree Protocol", in the navigation bar, you can configure spanning tree protocol.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

Spanning Tree Protocol Status

[Configuration](#)
[STP/RSTP](#)
[MSTP](#)

Spanning Tree Protocol: RSTP

Global Spanning Tree	Enable
Our Bridge ID	32768-000a.6a00.03ee
Root Bridge ID	32768-000a.6a00.03ee
Root Path Cost	0
Hello Time (second)	2
Max Age (second)	20
Forwarding Delay (second)	15
Topology Changed Times	0

Port	Active	Pathcost	Priority	Role	State
GE0/0/1	enable	20000	128	designatedPort	forwarding
GE0/0/2	enable	200000	128	designatedPort	disabled
GE0/0/3	enable	200000	128	designatedPort	disabled
GE0/0/4	enable	200000	128	designatedPort	disabled
GE0/0/5	enable	200000	128	designatedPort	disabled
GE0/0/6	enable	200000	128	designatedPort	disabled
GE0/0/7	enable	200000	128	designatedPort	disabled
GE0/0/8	enable	200000	128	designatedPort	disabled
GE0/0/9	enable	200000	128	designatedPort	disabled
GE0/0/10	enable	200000	128	designatedPort	disabled
GE0/0/11	enable	200000	128	designatedPort	disabled
GE0/0/12	enable	200000	128	designatedPort	disabled
GE0/0/13	enable	200000	128	designatedPort	disabled
GE0/0/14	enable	200000	128	designatedPort	disabled
GE0/0/15	enable	200000	128	designatedPort	disabled
GE0/0/16	enable	200000	128	designatedPort	disabled

2.2.4.1 Spanning Tree Protocol Status

Selecting "Advanced Application>Spanning Tree Protocol>Spanning Tree Protocol status"; in the navigation bar, you can view spanning tree protocol status.


Spanning Tree Protocol Status

[Configuration](#)
[STP/RSTP](#)
[MSTP](#)

Spanning Tree Protocol: RSTP

Global Spanning Tree			Enable		
Our Bridge ID			32768-000a.6a00.03ee		
Root Bridge ID			32768-000a.6a00.03ee		
Root Path Cost			0		
Hello Time (second)			2		
Max Age (second)			20		
Forwarding Delay (second)			15		
Topology Changed Times			0		

Port	Active	Pathcost	Priority	Role	State
GE0/0/1	enable	20000	128	designatedPort	forwarding
GE0/0/2	enable	200000	128	designatedPort	disabled
GE0/0/3	enable	200000	128	designatedPort	disabled
GE0/0/4	enable	200000	128	designatedPort	disabled
GE0/0/5	enable	200000	128	designatedPort	disabled
GE0/0/6	enable	200000	128	designatedPort	disabled
GE0/0/7	enable	200000	128	designatedPort	disabled
GE0/0/8	enable	200000	128	designatedPort	disabled
GE0/0/9	enable	200000	128	designatedPort	disabled
GE0/0/10	enable	200000	128	designatedPort	disabled
GE0/0/11	enable	200000	128	designatedPort	disabled
GE0/0/12	enable	200000	128	designatedPort	disabled
GE0/0/13	enable	200000	128	designatedPort	disabled
GE0/0/14	enable	200000	128	designatedPort	disabled
GE0/0/15	enable	200000	128	designatedPort	disabled

【Parameter Description】

Parameter	Description
Root Path Cost	Configure Root Path Cost
Hello time(second)	Switches sends bpdu in packet interval
Max age(second)	Ports are not yet received a message in the time, will initiate topology changes
Forwarding delay(second)	The state of the port switch time
Topology changed times	The number of topology changes

2.2.4.2 Spanning Tree Configuration

Selecting "Advanced Application>Spanning Tree Protocol>Spanning Tree configuration", in the navigation bar, you can configure spanning tree.

The interface shows the "Spanning Tree Configuration" page. It has a title bar with an orange sphere icon and the text "Spanning Tree Configuration", and a "Status" link on the right. The main area contains two sections: "Spanning Tree Mode" with three radio buttons (IEEE compatible Spanning Tree, Rapid Spanning Tree, Multiple Spanning Tree) and "Global Spanning Tree status" with two radio buttons (Enable, Disable). At the bottom are "Apply" and "Cancel" buttons.

【Parameter Description】

Parameter	Description
Spanning Tree Mode	Spanning tree mode: IEEE Compatible Spanning Tree Rapid Spanning Tree Multiple Spanning Tree
Global Spanning Tree Status	Select open or close Global Spanning

【Configuration example】

Such as: Spanning Tree Mode as "Rapid Spanning Tree", open Global Spanning.

The interface shows the "Spanning Tree Configuration" page with the same layout as before. In this example, the "Rapid Spanning Tree" radio button under "Spanning Tree Mode" and the "Enable" radio button under "Global Spanning Tree status" are circled in red. The "Apply" button at the bottom is also circled in red.

2.2.4.3 Compatible/Rapid Spanning Tree Protocol

Selecting "Advanced Application>Spanning Tree Protocol>Compatible/Rapid Spanning Tree Protocol", in the navigation bar, you can configure Compatible/Rapid Spanning Tree Protocol.


Compatible/Rapid Spanning Tree Protocol
[Status](#)

Bridge Priority	32768 ▼	
Hello Time	2	Seconds
MAX Age	20	Seconds
Forwarding Delay	15	Seconds

(Notice:When the port is a member of an aggregation group, the configuration is based on the maximum port configuration of the member.)

Port	Active	Priority	Path Cost	Path Cost Default Value
*	☐			☐
GE0/0/1	☒	128	20000	☒
GE0/0/2	☒	128	200000	☒
GE0/0/3	☒	128	200000	☒
GE0/0/4	☒	128	200000	☒
GE0/0/5	☒	128	200000	☒
GE0/0/6	☒	128	200000	☒
GE0/0/7	☒	128	200000	☒
GE0/0/8	☒	128	200000	☒
GE0/0/9	☒	128	200000	☒
GE0/0/10	☒	128	200000	☒
GE0/0/11	☒	128	200000	☒
GE0/0/12	☒	128	200000	☒
GE0/0/13	☒	128	200000	☒
GE0/0/14	☒	128	200000	☒

【Parameter Description】

Parameter	Description
Bridge Priority	Set bridge priority, the default instance bridge priority for 32768
Hello Time	Switches sends bpdu in packet interval
Max Age	Ports are not yet received a message in the time, will initiate topology changes
Forwarding Delay	The state of the port switch time
Port Priority	Set port instance priority, defaults to 128
Path Cost	Configure port costs

【Configuration example】

Such as:

1. Configure the bridge priority as 32768, the Hello Time is 2 seconds, the MAX Age is 20 seconds, and the Forwarding Delay is 15 seconds.

Compatible/Rapid Spanning Tree Protocol			Status
Bridge Priority	32768 ▼		
Hello Time	2	Seconds	
MAX Age	20	Seconds	
Forwarding Delay	15	Seconds	

2. The priority of port 24 is 64, and the path cost is 200000.

GE0/0/24	☒	64	200000	☒
GE0/0/25	☒	128	200000	☒
GE0/0/26	☒	128	200000	☒
GE0/0/27	☒	128	200000	☒
GE0/0/28	☒	128	200000	☒

Apply

Cancel

2.2.4.4 Multiple Spanning Tree Protocol

Selecting "Advanced Application>Spanning Tree Protocol>Multiple Spanning Tree Protocol", in the navigation bar, you can configure Multiple Spanning Tree Protocol.

 Multiple Spanning Tree Protocol
[Status](#)

Bridge:

Hello Time	2	seconds
MAX Age	20	seconds
Forwarding Delay	15	seconds
Maximum hops	20	
Configuration Name		
Revision Number	0	

Apply Cancel

Instance:

Instance	0 ▼	
Bridge Priority	32768 ▼	
VLAN Range		

Apply Remove Cancel

Show Mstp Instance Information:

Port	Active	external Path Cost	external Cost Value	Priority	inner Path Cost	inner Cost Value
*	☐		☐			☐
GE0/0/1	☒	20000	☒	128	20000	☒
GE0/0/2	☒	200000	☒	128	200000	☒
GE0/0/3	☒	200000	☒	128	200000	☒

【Parameter Description】

Parameter	Description
Hello Time	Switches sends bpdu in packet interval
Max age	Ports are not yet received a message in the time, will initiate topology changes
Forwarding Delay	The state of the port switch time
Maximum Hops	Set the maximum number of hops that BPDUs can support in the spanning

	tree
Configuration Name	Fill in configuration name
Revision Number	Set revision number
Instance	Instance number
Bridge Priority	Priority setting bridge example, the default instance bridge priority for 32768
VLAN Range	Set VLAN range
Port Priority	Set port instance priority, defaults to 128
Path Cost	Configure port costs

【Configuration example】

1. Bridge

 Multiple Spanning Tree Protocol

[Status](#)

Bridge:

Hello Time	2		seconds
MAX Age	20		seconds
Forwarding Delay	15		seconds
Maximum hops	20		
Configuration Name	1		
Revision Number	0		

Apply
Cancel

2. Instance

Instance:

Instance	1	
Bridge Priority	32768	
VLAN Range	1-8	

Add
Remove
Clear

2.2.5 Bandwidth Control

Selecting "Advanced Application>Bandwidth Control", in the navigation bar, you can configure Bandwidth Control.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

Bandwidth Control

Port	Ingress Rate(unit: 16kbps)	Egress Rate(unit: 16kbps)
*		
GE0/0/1	0	0
GE0/0/2	0	0
GE0/0/3	0	0
GE0/0/4	0	0
GE0/0/5	0	0
GE0/0/6	0	0
GE0/0/7	0	0
GE0/0/8	0	0
GE0/0/9	0	0
GE0/0/10	0	0
GE0/0/11	0	0
GE0/0/12	0	0
GE0/0/13	0	0
GE0/0/14	0	0
GE0/0/15	0	0
GE0/0/16	0	0
GE0/0/17	0	0
GE0/0/18	0	0
GE0/0/19	0	0
GE0/0/20	0	0
GE0/0/21	0	0
GE0/0/22	0	0
GE0/0/23	0	0
GE0/0/24	0	0
GE0/1/1	0	0
GE0/1/2	0	0

【Instructions】

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

【Configuration example】

Such as: Configure port-24 Ingress Rate is 64kbps, Egress Rate is 128kbps.

GE0/0/24	64	128
GE0/1/1	0	0
GE0/1/2	0	0
GE0/1/3	0	0
GE0/1/4	0	0

2.2.6 Broadcast Storm Control

Selecting "Advanced Application>Broadcast Storm Control"; in the navigation bar, you can configure Broadcast Storm Control.

Basic Setting

Advanced Application

Management

Broadcast Storm Control

storm-suppression mode pkt

Apply

Port	Broadcast(unit:64pps)		Multicast(unit:64pps)		Unicast(unit:64pps)	
*		pps		pps		pps
GE0/0/1	0	pps	0	pps	0	pps
GE0/0/2	0	pps	0	pps	0	pps
GE0/0/3	0	pps	0	pps	0	pps
GE0/0/4	0	pps	0	pps	0	pps
GE0/0/5	0	pps	0	pps	0	pps
GE0/0/6	0	pps	0	pps	0	pps
GE0/0/7	0	pps	0	pps	0	pps
GE0/0/8	0	pps	0	pps	0	pps
GE0/0/9	0	pps	0	pps	0	pps
GE0/0/10	0	pps	0	pps	0	pps
GE0/0/11	0	pps	0	pps	0	pps
GE0/0/12	0	pps	0	pps	0	pps
GE0/0/13	0	pps	0	pps	0	pps
GE0/0/14	0	pps	0	pps	0	pps
GE0/0/15	0	pps	0	pps	0	pps
GE0/0/16	0	pps	0	pps	0	pps
GE0/0/17	0	pps	0	pps	0	pps
GE0/0/18	0	pps	0	pps	0	pps
GE0/0/19	0	pps	0	pps	0	pps
GE0/0/20	0	pps	0	pps	0	pps
GE0/0/21	0	pps	0	pps	0	pps
GE0/0/22	0	pps	0	pps	0	pps

【Parameter Description】

Parameter	Description
Broadcast	Broadcast rate limitation(the range of: 64-32000000, unit: pps, you must enter multiple of 64, default to 49984)
Multicast	Multicast rate limitation(the range of: 64-32000000, unit: pps, you must enter multiple of 64, default to 49984)
Unicast	Unicast rate limitation(the range of: 64-32000000, unit: pps, you must enter multiple of 64, default to 49984)

【Instructions】

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

【Configuration example】

Such as: Set Port1 broadcast as 6400 pps, multicast as 3200 pps, unicast as 3200 pps.

Port	Broadcast(unit:64pps)		Multicast(unit:64pps)		Unicast(unit:64pps)	
*		pps		pps		pps
GE0/0/1	6400	pps	3200	pps	3200	pps

2.2.7 Mirroring

Selecting "Advanced Application>Mirroring", in the navigation bar, you can configure mirroring.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

Mirroring

Active ☐

Monitor Port

Port	Mirrored	Direction
*	☐	Ingress ▼
GE0/0/1	☐	Ingress ▼
GE0/0/2	☐	Ingress ▼
GE0/0/3	☐	Ingress ▼
GE0/0/4	☐	Ingress ▼
GE0/0/5	☐	Ingress ▼
GE0/0/6	☐	Ingress ▼
GE0/0/7	☐	Ingress ▼
GE0/0/8	☐	Ingress ▼
GE0/0/9	☐	Ingress ▼
GE0/0/10	☐	Ingress ▼
GE0/0/11	☐	Ingress ▼
GE0/0/12	☐	Ingress ▼
GE0/0/13	☐	Ingress ▼
GE0/0/14	☐	Ingress ▼
GE0/0/15	☐	Ingress ▼
GE0/0/16	☐	Ingress ▼
GE0/0/17	☐	Ingress ▼
GE0/0/18	☐	Ingress ▼
GE0/0/19	☐	Ingress ▼
GE0/0/20	☐	Ingress ▼
GE0/0/21	☐	Ingress ▼
GE0/0/22	☐	Ingress ▼
GE0/0/23	☐	Ingress ▼
GE0/0/24	☐	Ingress ▼
GE0/1/1	☐	Ingress ▼

【Parameter Description】

Parameter	Description
Active	Select open or close Mirroring
Monitor Port	Set up the monitoring port and forward the flow data of the source port to the message analyzer to analyze the message and then forward to the monitoring port
Mirrored	Check the box to configure the mirror source port
Direction	Configure the direction of the mirror message, choose: Ingress, Egress, Both

【Configuration example】

Such as: Open mirroring, configure monitoring port is port 8, the source port is port 7, and the mirror message is in both direction.

 **Mirroring**

Active ☒

Monitor Port

Port	Mirrored	Direction
*	☐	Ingress ▼
GE0/0/1	☐	Ingress ▼
GE0/0/2	☐	Ingress ▼
GE0/0/3	☐	Ingress ▼
GE0/0/4	☐	Ingress ▼
GE0/0/5	☐	Ingress ▼
GE0/0/6	☐	Ingress ▼
GE0/0/7	☒	Both ▼

2.2.8 Link Aggregation

Selecting "Advanced Application>Link Aggregation", in the navigation bar, you can configure link aggregation.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

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Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

 **Link Aggregation Status**

[Link Aggregation Setting](#)

Group ID	Enabled Ports	Synchronized Ports	Aggregator ID	Criteria	Status
T1	-	-	-	-	-
T2	-	-	-	-	-
T3	-	-	-	-	-
T4	-	-	-	-	-
T5	-	-	-	-	-
T6	-	-	-	-	-
T7	-	-	-	-	-

2.2.8.1 Link Aggregation status

Selecting "**Advanced Application>Link Aggregation>Link Aggregation Status**", in the navigation bar, you can view link aggregation status, you can view Group ID, Enabled Ports, Synchronized Ports, Aggregator ID, Criteria, Status.

Link Aggregation Status		Link Aggregation Setting			
Group ID	Enabled Ports	Synchronized Ports	Aggregator ID	Criteria	Status
T1	-	-	-	-	-
T2	-	-	-	-	-
T3	-	-	-	-	-
T4	-	-	-	-	-
T5	-	-	-	-	-
T6	-	-	-	-	-
T7	-	-	-	-	-

2.2.8.2 Link Aggregation Setting

Selecting "**Advanced Application>Link Aggregation>Link Aggregation Setting**", in the navigation bar, you can set Link Aggregation.

Link Aggregation Setting

[Status](#) [LACP](#)

Port	Group ID	Port LACP Mode
GE0/0/1	none ▼	active ▼
GE0/0/2	none ▼	active ▼
GE0/0/3	none ▼	active ▼
GE0/0/4	none ▼	active ▼
GE0/0/5	none ▼	active ▼
GE0/0/6	none ▼	active ▼
GE0/0/7	none ▼	active ▼
GE0/0/8	none ▼	active ▼
GE0/0/9	none ▼	active ▼
GE0/0/10	none ▼	active ▼
GE0/0/11	none ▼	active ▼
GE0/0/12	none ▼	active ▼
GE0/0/13	none ▼	active ▼
GE0/0/14	none ▼	active ▼
GE0/0/15	none ▼	active ▼
GE0/0/16	none ▼	active ▼
GE0/0/17	none ▼	active ▼
GE0/0/18	none ▼	active ▼
GE0/0/19	none ▼	active ▼
GE0/0/20	none ▼	active ▼
GE0/0/21	none ▼	active ▼
GE0/0/22	none ▼	active ▼
GE0/0/23	none ▼	active ▼
GE0/0/24	none ▼	active ▼

【Parameter Description】

Parameter	Description
Group ID	Add the port to the specified Aggregation Group ID
Port LACP mode	Configure port aggregation(static/active/passive)
Criteria	Configure the Aggregation Group load balancing (src-mac/dst-mac/src-dst-mac/src-ip/dst-ip/src-dst-ip)

【Configuration example】

Such as: configure parameter of Aggregation Group port-8.

GE0/0/8	T1 ▼	active ▼
---------	------	----------

2.2.8.3 Link Aggregation Control Protocol

Selecting "Advanced Application> Link Aggregation> Link Aggregation Control Protocol", in the navigation bar, you can configure Link Aggregation Control Protocol.

Link Aggregation Control Protocol
[Link Aggregation Setting](#)

System Priority	32768
-----------------	-------

Group ID	Active	Eth-trunk Mode	Load-balance Mode
T1	☐	static ▼	none ▼
T2	☐	static ▼	none ▼
T3	☐	static ▼	none ▼
T4	☐	static ▼	none ▼
T5	☐	static ▼	none ▼
T6	☐	static ▼	none ▼
T7	☐	static ▼	none ▼

Port	Port Priority
*	
GE0/0/1	128
GE0/0/2	128
GE0/0/3	128
GE0/0/4	128
GE0/0/5	128
GE0/0/6	128
GE0/0/7	128
GE0/0/8	128
GE0/0/9	128
GE0/0/10	128
GE0/0/11	128

【Parameter Description】

Parameter	Description
System priority	Aggregation group system priority, the default is 32768(the range of 1-65535)

【Configuration example】

Such as:

1.Open aggregation group T1 LACP.

Group ID	LACP Active
T0	☐
T1	☒

2.The priority for configuring port 8 is 64.

GE0/0/8	64
---------	----

2.2.9 POE Settings

Selecting "Advanced Application>POE Settings", you can configure POE.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

POE Settings

POE Port Settings

power supply	internal power supply
power limit (1-370)	370 W
power consumption	0W
poe status poll	disable ▼

Apply

Cancel

2.2.9.1 POE Settings

Selecting "Advanced Application>POE Settings", you can configure POE.

POE Settings

POE Port Settings

power supply	internal power supply
power limit (1-370)	370 W
power consumption	0W

Apply

Cancel

【Parameter Description】

Parameter	Description
power limit	The power of switch POE can be limited

【Configuration example】

Such as: set power limit is 360W.

POE Settings [POE Port Settings](#)

power supply	internal power supply
power limit (1-370)	360 W
power consumption	0W

[Apply](#) [Cancel](#)

2.2.9.2 POE Port Settings

Selecting "Advanced Application>POE Port Settings", in the navigation bar, you can configure POE Port.

POE Port Settings [POE Settings](#)

Port Number [Click for selecting]											
1	3	5	7	9	11	13	15	17	19	21	23
0	-	-	-	-	-	-	-	-	-	-	-
2	4	6	8	10	12	14	16	18	20	22	24

Port Number poe

POE Port Settings [Ethernet 1000M Port\[1\]](#)

Port No.	Enable	Standard	Priority	Class	Power Limit(1-30):W	Power Consumption:W	Voltage:V	Status
GE0/0/1	enable	ieee802.3at	low	5	30	0	0.0	status: Port is off - Detection is in process

[Refresh](#) [Modify](#)

[Show all ports information](#) (Note: It may take some time to display all ports information, please be patient.)

【Parameter Description】

Parameter	Description
Enable	Turn the port POE power on and off and the default is open
Standard	Configure ieee802.3af, ieee802.3at mode, default to ieee802.3at
Priority	Configure port Priority low, critical, high, the default priority is low
Power limit	The power of switch POE can be limited

【Configuration example】

Such as: Configure the POE for port 1.

POE Port Settings **Ethernet 1000M Port[1]**

Port No.	Enable	Standard	Priority	Class	Power Limit(1-30):W	Power Consumption:W	Voltage:V	Status
GE0/0/1	enable	ieee802.3af	high	5	28	0	0.0	status: Port is off - Detection is in process

Refresh Modify

Show all ports information (Note: It may take some time to display all ports information, please be patient.)

2.2.10 Classifier

Selecting "Advanced Application>Classifier", in the navigation bar, you can configure Classifier.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queueing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

Classifier

Type: IP

Action: Deny

Name:

Subitem: 0

DSCP: ☒ Any ☐ be

IP Protocol: ☒ All ☐ Establish Only

☐ Others (Dec)

Source IP Address: 0.0.0.0 /

Destination IP Address: 0.0.0.0 /

Apply Cancel Clear

Index	Active	Name	Subitem	Rule	Delete
-------	--------	------	---------	------	--------

Delete Cancel

【Parameter Description】

Parameter	Description
Active	Active Classifier

2.2.11 Policy Rule

Selecting "Advanced Application>Policy Rule", in the navigation bar, you can configure Policy Rule.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

Policy

Active ☐ Interface

Classifier(s) Ip-ACL MAC-ACL

Priority ☐ Enable

DSCP ☐ Enable

Egress Port ☐ Enable ☐ CPU

Rate limit ☐ Enable Kbps <16-1000000>

Add

Cancel

Clear

Index	Active	Type	Classifier(s)	Delete
Delete Cancel				

【Parameter Description】

Parameter	Description
Active	Active Classifier

2.2.12 Queuing Method

Selecting "Advanced Application>Queuing Method", in the navigation bar, you can configure queuing method.

Basic Setting
Advanced Application
Management

VLAN
 MAC Address Forwarding
 Loopback Detection
 Spanning Tree Protocol
 Bandwidth Control
 Broadcast Storm Control
 Mirroring
 Link Aggregation
 POE Settings
 Classifier
 Policy Rule
 Queuing Method
 Multicast
 IPv6 Multicast
 Dos attack protect
 DHCP Snooping Setting
 SNTP Setting
 LLDP Protocol
 AAA
 EEE
 ARP Safeguarding

Queuing Method

Method	Weight							
	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7
SPQ ▼								

Apply Cancel

【Parameter Description】

Parameter	Description
Method	Five method: SPQ,WRR,SP+WRR,WFQ,SP+WFQ

【Configuration Example】

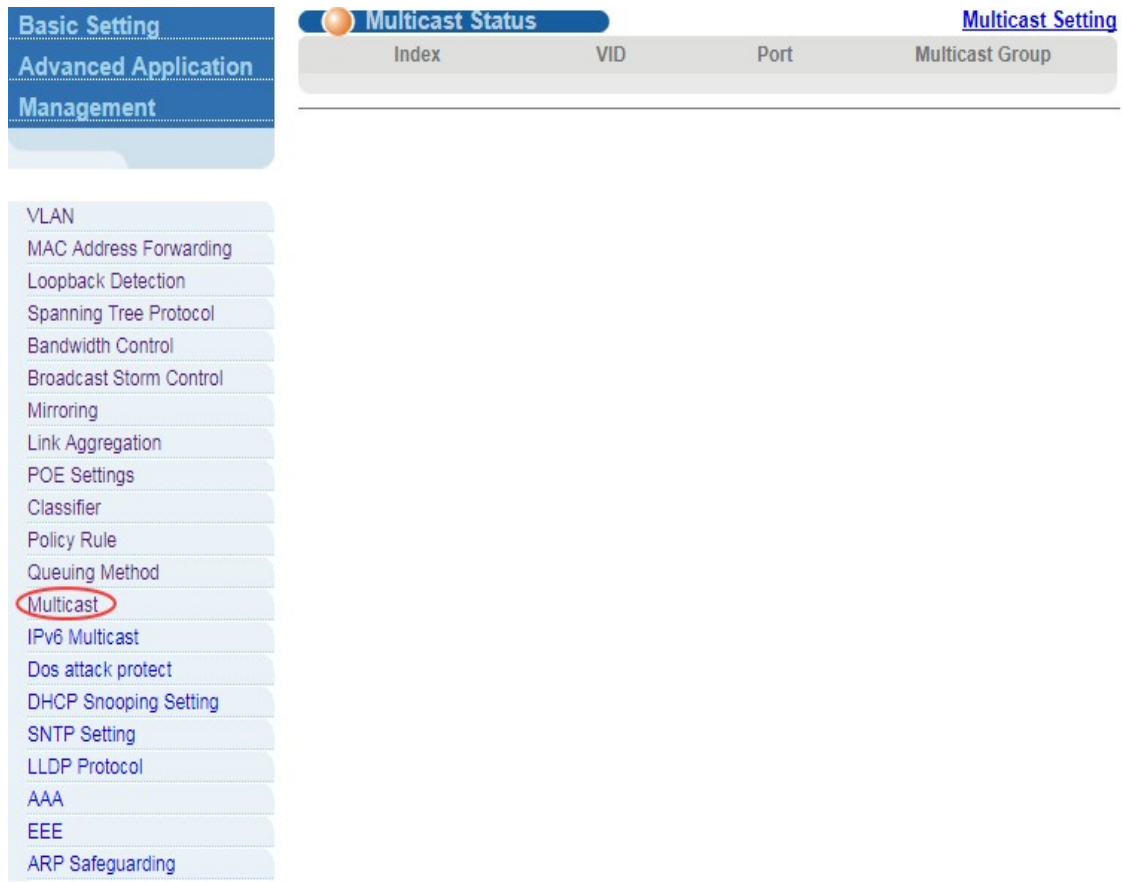
Queuing Method

Method	Weight							
	Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7
WRR ▼	10	20	30	40	50	6	7	8

Apply Cancel

2.2.13 Multicast

Selecting “**Advanced Application>Multicast**”, in the navigation bar, you can configure Multicast.



The screenshot shows the web-based configuration interface for Multicast. On the left, a navigation menu lists various network features, with 'Multicast' highlighted. The main content area displays the 'Multicast Status' tab, which includes a table with columns for 'Index', 'VID', 'Port', and 'Multicast Group'. A link for 'Multicast Setting' is located in the top right corner of the main area.

2.2.13.1 Multicast Status

Selecting “**Advanced Application>Multicast>Multicast Status**”, in the navigation bar, you can view all multicast.

This includes the static configuration and the multicast that is learned through the IGMP-Snooping protocol.



The screenshot shows the 'Multicast Status' page. At the top, there is a navigation bar with 'Multicast Status' and a link to 'Multicast Setting'. Below this is a table with the following headers: 'Index', 'VID', 'Port', and 'Multicast Group'.

2.2.13.2 Multicast Settings

Selecting “**Advanced Application>Multicast>Multicast Settings**”, in the navigation bar, you can set multicast.

[Multicast Setting](#)
[Multicast Status](#)
[Deny VLAN](#)
[IGMP Filtering Profile](#)

IGMP Snooping:

Active	☐
Querier	☐
Host Timeout	300 seconds
IGMP Route Port Forward	☐

Port Information:

Port	Max Group Limit	Fast Leave	Multicast Vlan	IGMP Filtering Profile
*		☐		
GE0/0/1	507	☐	0	
GE0/0/2	507	☐	0	
GE0/0/3	507	☐	0	
GE0/0/4	507	☐	0	
GE0/0/5	507	☐	0	
GE0/0/6	507	☐	0	
GE0/0/7	507	☐	0	
GE0/0/8	507	☐	0	
GE0/0/9	507	☐	0	
GE0/0/10	507	☐	0	
GE0/0/11	507	☐	0	
GE0/0/12	507	☐	0	
GE0/0/13	507	☐	0	
GE0/0/14	507	☐	0	
GE0/0/15	507	☐	0	
GE0/0/16	507	☐	0	
GE0/0/17	507	☐	0	
GE0/0/18	507	☐	0	
GE0/0/19	507	☐	0	

【Parameter Description】

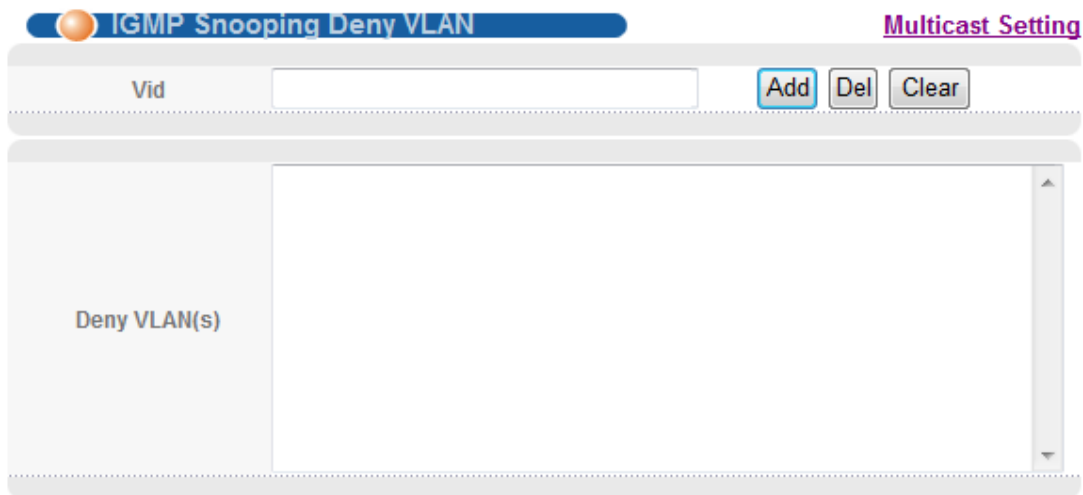
Parameter	Description
Active	Open IGMP-snooping
Querier	Open IGMP-snooping timed query function
Host Timeout	Configure the dynamic group sowing time (default 300s)
IGMP Route Port Forward	Open IGMP Route Port Forward
Max Group Limit	Max learning group of configuration port (default 1020)
Fast Leave	Open port quick exit function (i.e., when the port receives the IGMP and leaves the message, immediately remove the port from the reshuffle group)

Multicast Vlan	The configuration group multicast the default VLAN
IGMP Filtering Profile	The configuration port refers to the multicast preview, which can only be learned to the group broadcast group that is allowed in the group broadcast preview, and cannot be learned to the multicast group which is forbidden by the group broadcast preview

【Configuration Example】

2.2.13.3 IGMP Snooping Dney VLAN

Selecting “**Advanced Application>Multicast>IGMP Snooping Dney VLAN**”, in the navigation bar, you can preview the banned group broadcast group, unable to learn the multicast group that is prohibited by the group preview.



【Parameter Description】

Parameter	Description
Vid	Vlan's ID

2.2.13.4 IGMP Filtering Profile

Selecting “**Advanced Application>Multicast>IGMP Filtering Profile**”, in the navigation bar, you can add and remove the preview feature of the modified group.

IGMP Filtering Profile

[Multicast Setting](#)

Profile Setup

Profile ID

Profile Description

Profile Limit

☒ permit
 ☐ deny

Add Modify Del Clear

Index	Profile ID	Profile Description	Profile Limit	Referred Port
Profile ID Input Format ☒ IP ☐ MAC Start Address End Address VLAN Add Clear				

Profile ID	Index	Start Addr	End Addr	VLAN	Delete

【Parameter Description】

Parameter	Description
Profile ID	The range of 1-128
Profile Limit	Profile rules can be permit or deny
Input Format	The preview address can be configured to be either IP or MAC

2.2.14 IPv6 Multicast

Selecting "Advanced Application>IPv6 Multicast", in the navigation bar, you can configure IPv6 Multicast.

2.2.14.1 IPv6 Multicast Status

IPv6 Multicast Status			IPv6 Multicast Setting
Index	VID	Port	IPv6 Multicast Group

Selecting **"Advanced Application>IPv6 Multicast>IPv6 Multicast Setting"**, in the navigation bar, you can configure IPv6 Multicast.

IPv6 Multicast Setting

MLD Snooping:

[IPv6 Multicast Status](#)
[Deny VLAN](#)

Active	☐
Querier	☐
Host Timeout	300 seconds
MLD Route Port Forward	☐

Port Information:

Port	Max Group Limit	Fast Leave	IPv6 Multicast Vlan
*		☐	
GE0/0/1	507	☐	0
GE0/0/2	507	☐	0
GE0/0/3	507	☐	0
GE0/0/4	507	☐	0
GE0/0/5	507	☐	0
GE0/0/6	507	☐	0
GE0/0/7	507	☐	0
GE0/0/8	507	☐	0
GE0/0/9	507	☐	0
GE0/0/10	507	☐	0
GE0/0/11	507	☐	0
GE0/0/12	507	☐	0
GE0/0/13	507	☐	0
GE0/0/14	507	☐	0
GE0/0/15	507	☐	0
GE0/0/16	507	☐	0
GE0/0/17	507	☐	0
GE0/0/18	507	☐	0
GE0/0/19	507	☐	0

【Parameter Description】

Parameter	Description
Active	Enable or disable MLD snooping
Querier	Enable or disable MLD snooping timed Querier
Host Timeout	Configure Dynamic IPv6 multicast aging time (default 300s)
MLD Route Port Forward	Enable or disable MLD Route Port Forward
Max Group Limit	Configure maximum learning IPv6 Multicast message of port(default 1020)
Fast Leave	Enable or disable Fast Leave (That is, when the port receives IGMP leave message,

	the port is deleted immediately from the IPv6 multicast group)
IPv6 Multicast VLAN	Configure IPv6 multicast default VLAN

【Configuration Example】

IPv6 Multicast Setting

IPv6 Multicast Status

Deny VLAN

MLD Snooping:

Active	☐
Querier	☐
Host Timeout	300 seconds
MLD Route Port Forward	☐

Port Information:

Port	Max Group Limit	Fast Leave	IPv6 Multicast Vlan
*		☐	
GE0/0/1	507	☒	1

2.2.14.3 MLD Snooping Dney VLAN

Selecting "Advanced Application>IPv6 Multicast>MLD Snooping Dney VLAN", in the navigation bar, you can configure MLD Snooping Dney VLAN.

MLD Snooping Dney VLAN

IPv6 Multicast Setting

Vid

Deny VLAN(s)

【Parameter Description】

Parameter	Description
-----------	-------------

Vid

Vlan ID

2.2.15 Dos attack protect

Selecting "Advanced Application>Dos attack protect", in the navigation bar, you can configure dos attack protect.

Basic Setting
Advanced Application
Management

VLAN
 MAC Address Forwarding
 Loopback Detection
 Spanning Tree Protocol
 Bandwidth Control
 Broadcast Storm Control
 Mirroring
 Link Aggregation
 POE Settings
 Classifier
 Policy Rule
 Queuing Method
 Multicast
 IPv6 Multicast
Dos attack protect
 DHCP Snooping Setting
 SNTP Setting
 LLDP Protocol
 AAA
 EEE
 ARP Safeguarding

Dos Attack Protect

dos attack control:

Dos attack packets class	drop Active
src mac and dst mac equal	☐
src ip and dst ip equal	☐
UDP with sport and dport equal	☐
TCP with sport and dport equal	☐
ICMPv4 payload maximum length	☐ 512
ICMPv6 payload maximum length	☐ 512
TCP control flags and sequence equal 0	☐
TCP syn packets sport 0-1023, applies to unfragmented packets	☐
enable dos attack ip first fragments	☐
check minimum size of ipv6 fragments	☐ 1240
fragmented icmp packets	☐
TCP fragments with offset value of 1(*8)	☐
TCP with SYN & FIN bits	☐
TCP with FIN,URG and PSH bits,and sequence equal 0	☐
TCP frist fragments with minimum tcp header length	☐ 20

Apply Cancel

【Parameter Description】

Parameter	Description
dos attack control	The DOS attack is controlled by the discarding behavior of the corresponding message

2.2.16 DHCP Snooping Setting

Selecting "Advanced Application>DHCP Snooping Setting", in the navigation bar, you can configure DHCP Snooping.

Basic Setting

Advanced Application Management

- VLAN
- MAC Address Forwarding
- Loopback Detection
- Spanning Tree Protocol
- Bandwidth Control
- Broadcast Storm Control
- Mirroring
- Link Aggregation
- POE Settings
- Classifier
- Policy Rule
- Queuing Method
- Multicast
- IPv6 Multicast
- Dos attack protect
- DHCP Snooping Setting**
- SNTP Setting
- LLDP Protocol
- AAA
- EEE
- ARP Safeguarding

DHCP Snooping Setting
[IP Source Guard](#)

DHCP Snooping Enable ☒ Close ☐ Open

Port	Trust	Maxclients
*	☐	
GE0/0/1	☐	2048
GE0/0/2	☐	2048
GE0/0/3	☐	2048
GE0/0/4	☐	2048
GE0/0/5	☐	2048
GE0/0/6	☐	2048
GE0/0/7	☐	2048
GE0/0/8	☐	2048
GE0/0/9	☐	2048
GE0/0/10	☐	2048
GE0/0/11	☐	2048
GE0/0/12	☐	2048
GE0/0/13	☐	2048
GE0/0/14	☐	2048
GE0/0/15	☐	2048
GE0/0/16	☐	2048
GE0/0/17	☐	2048
GE0/0/18	☐	2048
GE0/0/19	☐	2048
GE0/0/20	☐	2048
GE0/0/21	☐	2048
GE0/0/22	☐	2048
GE0/0/23	☐	2048
GE0/0/24	☐	2048

2.2.16.1 DHCP Snooping Setting

Selecting "Advanced Application>DHCP Snooping Setting>DHCP Snooping Setting", in the navigation bar, you can configure DHCP Snooping.

DHCP Snooping Setting

[IP Source Guard](#)

DHCP Snooping Enable

☒ Close ☐ Open

Port	Trust	Maxclients
*	☐	
GE0/0/1	☐	2048
GE0/0/2	☐	2048
GE0/0/3	☐	2048
GE0/0/4	☐	2048
GE0/0/5	☐	2048
GE0/0/6	☐	2048
GE0/0/7	☐	2048
GE0/0/8	☐	2048
GE0/0/9	☐	2048
GE0/0/10	☐	2048
GE0/0/11	☐	2048
GE0/0/12	☐	2048
GE0/0/13	☐	2048
GE0/0/14	☐	2048
GE0/0/15	☐	2048
GE0/0/16	☐	2048
GE0/0/17	☐	2048
GE0/0/18	☐	2048
GE0/0/19	☐	2048
GE0/0/20	☐	2048
GE0/0/21	☐	2048

【Parameter Description】

Parameter	Description
DHCP Snooping Enable	Enable or disable DHCP Snooping serve
Trust	Enable or disable the DHCP Snooping port trust property state
Maxclients	Set Maxclients

【Configuration Example】

DHCP Snooping Setting

[IP Source Guard](#)

DHCP Snooping Enable

☐ Close
 ☒ Open

Port	Trust	Maxclients
*	☐	
GE0/0/1	☒	2048

2.2.16.2 IP Source Guard

Selecting "Advanced Application>DHCP Snooping Setting>IP Source Guard", in the navigation bar, you can configure IP Source Guard.

IP-Source-Guard

[DHCP Snooping Setting](#)

System security settings

Port	Mode
*	Disable ▼
GE0/0/1	Disable ▼
GE0/0/2	Disable ▼
GE0/0/3	Disable ▼
GE0/0/4	Disable ▼
GE0/0/5	Disable ▼
GE0/0/6	Disable ▼
GE0/0/7	Disable ▼
GE0/0/8	Disable ▼
GE0/0/9	Disable ▼
GE0/0/10	Disable ▼
GE0/0/11	Disable ▼
GE0/0/12	Disable ▼
GE0/0/13	Disable ▼
GE0/0/14	Disable ▼
GE0/0/15	Disable ▼
GE0/0/16	Disable ▼
GE0/0/17	Disable ▼
GE0/0/18	Disable ▼
GE0/0/19	Disable ▼
GE0/0/20	Disable ▼
GE0/0/21	Disable ▼
GE0/0/22	Disable ▼
GE0/0/23	Disable ▼
GE0/0/24	Disable ▼
GE0/1/1	Disable ▼
GE0/1/2	Disable ▼
GE0/1/3	Disable ▼
GE0/1/4	Disable ▼

【Parameter Description】

Parameter	Description
Disable unbinding entry to access network	Enable or Disable unbinding entry to access network

【Instructions】

If you want to access shall be binding and switch the IP address of the same network segment.

2.2.17 SNTP Setting

Selecting "Advanced Application>SNTP Setting", in the navigation bar, you can configure SNTP.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

SNTP Setup

SNTP Client Enable ☐

Apply

SNTP Client Mode broadcast ▼

SNTP Client Poll Interval 1000 (64~1024)

SNTP Client Retransmit Times 3 (1~10)

SNTP Client Retransmit Interval 30 (3~30)

SNTP Client Broadcast Delay 3 (1~9999)ms

MD5 Authentication Enable ☐

Encrypt Enable ☐

SNTP Server IP Address (X.X.X.X)

Backup Server IP Address (X.X.X.X)

SNTP Server Key

Apply Refresh

Authentication Key List

KeyID Key Trusted

YES ▼

No Authentication Key configured.

Add Modify Del DelAll

Valid Server List

Server IP Wildcard

【Parameter Description】

Parameter	Description
SNTP Client Enable	Enable or disable SNTP Client
SNTP Client Mode	SNTP Client Mode: broadcast, anycast multicast unicast
SNTP Client Poll Interval	It's interval that SNTP Client sends requests to SNTP Server
SNTP Client Retransmit Times	If SNTP Client does not receive a response within a certain period of time after sending a request,it will resend the request until the number of retransmissions exceeds the set value
SNTP Client Retransmit Interval	It's interval that SNTP Client resends requests to SNTP Server
SNTP Server IP Address	Set SNTP Server IP Address
Valid Server List Server IP	SNTP only receives the messages from Valid Server List Server IP configured
SNTP Client Enable	Enable or disable SNTP Client
SNTP Client Mode	SNTP Client Mode: broadcast, anycast multicast unicast
SNTP Client Poll Interval	It's interval that SNTP Client sends requests to SNTP Server
SNTP Client Retransmit Times	If SNTP Client does not receive a response within a certain period of time after sending a request,it will resend the request until the number of retransmissions exceeds the set value
Valid Server List Server IP	SNTP only receives the messages from Valid Server List Server IP configured

【Instructions】

SNTP Client receives and transmits messages from any SNTP Server when work mode of SNTP Client is broadcast or multicast. Local time cannot be synchronized to standard time if there is a malicious attack server (which provides incorrect time)

2.2.18 LLDP Protocol

Selecting "Advanced Application>LLDP Protocol", in the navigation bar, you can configure LLDP.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

LLDP Status

Port	Mode	TxPkts	RxPkts	Neighbours
GE0/0/1	Disabled	-	-	-
GE0/0/2	Disabled	-	-	-
GE0/0/3	Disabled	-	-	-
GE0/0/4	Disabled	-	-	-
GE0/0/5	Disabled	-	-	-
GE0/0/6	Disabled	-	-	-
GE0/0/7	Disabled	-	-	-
GE0/0/8	Disabled	-	-	-
GE0/0/9	Disabled	-	-	-
GE0/0/10	Disabled	-	-	-
GE0/0/11	Disabled	-	-	-
GE0/0/12	Disabled	-	-	-
GE0/0/13	Disabled	-	-	-
GE0/0/14	Disabled	-	-	-
GE0/0/15	Disabled	-	-	-
GE0/0/16	Disabled	-	-	-
GE0/0/17	Disabled	-	-	-
GE0/0/18	Disabled	-	-	-
GE0/0/19	Disabled	-	-	-
GE0/0/20	Disabled	-	-	-
GE0/0/21	Disabled	-	-	-
GE0/0/22	Disabled	-	-	-
GE0/0/23	Disabled	-	-	-
GE0/0/24	Disabled	-	-	-
GE0/1/1	Disabled	-	-	-
GE0/1/2	Disabled	-	-	-
GE0/1/3	Disabled	-	-	-
GE0/1/4	Disabled	-	-	-

LLDP Setting

2.2.18.1 LLDP Status

Selecting "Advanced Application>LLDP Protocol>LLDP Status", in the navigation bar, you can view LLDP status.

LLDP Status				LLDP Setting
Port	Mode	TxPkts	RxPkts	Neighbours
GE0/0/1	Disabled	-	-	-
GE0/0/2	Disabled	-	-	-
GE0/0/3	Disabled	-	-	-
GE0/0/4	Disabled	-	-	-
GE0/0/5	Disabled	-	-	-
GE0/0/6	Disabled	-	-	-
GE0/0/7	Disabled	-	-	-
GE0/0/8	Disabled	-	-	-
GE0/0/9	Disabled	-	-	-
GE0/0/10	Disabled	-	-	-
GE0/0/11	Disabled	-	-	-
GE0/0/12	Disabled	-	-	-
GE0/0/13	Disabled	-	-	-
GE0/0/14	Disabled	-	-	-
GE0/0/15	Disabled	-	-	-
GE0/0/16	Disabled	-	-	-
GE0/0/17	Disabled	-	-	-
GE0/0/18	Disabled	-	-	-
GE0/0/19	Disabled	-	-	-
GE0/0/20	Disabled	-	-	-
GE0/0/21	Disabled	-	-	-
GE0/0/22	Disabled	-	-	-
GE0/0/23	Disabled	-	-	-
GE0/0/24	Disabled	-	-	-
GE0/1/1	Disabled	-	-	-
GE0/1/2	Disabled	-	-	-
GE0/1/3	Disabled	-	-	-
GE0/1/4	Disabled	-	-	-

2.2.18.2 LLDP Setting

Selecting "Advanced Application>LLDP Protocol>LLDP Setting", in the navigation bar, you can configure LLDP.

 **LLDP Setting**
[LLDP Status](#)

Active
☐

Hello-time	30	seconds(5-32768)
Hold-time	4	seconds(2-10)

Port	Mode
*	Disable ▼
GE0/0/1	Disable ▼
GE0/0/2	Disable ▼
GE0/0/3	Disable ▼
GE0/0/4	Disable ▼
GE0/0/5	Disable ▼
GE0/0/6	Disable ▼
GE0/0/7	Disable ▼
GE0/0/8	Disable ▼
GE0/0/9	Disable ▼
GE0/0/10	Disable ▼
GE0/0/11	Disable ▼
GE0/0/12	Disable ▼
GE0/0/13	Disable ▼
GE0/0/14	Disable ▼
GE0/0/15	Disable ▼
GE0/0/16	Disable ▼
GE0/0/17	Disable ▼
GE0/0/18	Disable ▼
GE0/0/19	Disable ▼
GE0/0/20	Disable ▼
GE0/0/21	Disable ▼
GE0/0/22	Disable ▼
GE0/0/23	Disable ▼
GE0/0/24	Disable ▼

2.2.19 AAA

Selecting “Advanced Application>AAA”, in the navigation bar, you can configure AAA.

Basic Setting

Advanced Application

Management

802.1x

AAA

MUSER

EAP Forwarding Mode: eap-finish

Quiet Period: 0 seconds(0-600)

Port	Active	Port Control	Reauthentication	Reauthentication Timer	Max User(s)
*	disable ▼	auto ▼	Off ▼	seconds	
GE0/0/1	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/2	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/3	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/4	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/5	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/6	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/7	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/8	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/9	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/10	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/11	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/12	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/13	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/14	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/15	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/16	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/17	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/18	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/19	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/20	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/21	disable ▼	auto ▼	Off ▼	3600 seconds	100

2.2.19.1 802.1x

Selecting "Advanced Application>AAA>802.1x", in the navigation bar, you can configure 802.1x.

802.1x
AAA
MUSER

EAP Forwarding Mode
Quiet Period

eap-finish ▼

0

seconds(0-600)

Port	Active	Port Control	Reauthentication	Reauthentication Timer	Max User(s)
*	disable ▼	auto ▼	Off ▼		
GE0/0/1	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/2	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/3	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/4	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/5	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/6	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/7	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/8	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/9	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/10	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/11	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/12	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/13	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/14	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/15	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/16	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/17	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/18	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/19	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/20	disable ▼	auto ▼	Off ▼	3600 seconds	100
GE0/0/21	disable ▼	auto ▼	Off ▼	3600 seconds	100

【Parameter Description】

Parameter	Description
EAP Forwarding Mode	EAP Forwarding Mode : eap-finish, Eap-tansfer
Quiet Period	If the same user fails to log in more than the allowed value, he or she will not be allowed to try to log in at a certain time
Active	Active: disable portbased(multi) portbased(single) macbased
Port Control	Port Control: auto forceauthorized forceunauthorized
Reauthentication	After user authentication is passed, the port can be configured to reauthenticate or

	periodically re-authenticate
Reauthentication Timer	Time range of Reauthentication Timer: 10-3600 seconds
Max user(s)	The maximum number of users: 1-100

2.2.19.2 Radius Domain

Selecting "Advanced Application>AAA>Radius Domain", in the navigation bar, you can configure Radius Domain.

Domain
802.1x
MUSER
Radius
TACACS+

Radius Domain:

Active	☐
Domain Name	
Default Domain	☐
Radius Service Name	
Force Max Number	☒ Disable ☐ 1 (1-640)

Domain Name	Radius Service Name	Active	Delete

【Parameter Description】

Parameter	Description
Active	Enable or disable radius domain
Domain Name	Set domain name
Radius Server Name	Set Radius Server name
Force Max Number	Maximum number of user connections range: 1-640

【Instructions】

It needs to provide user name and password when the client is authenticated. The user name information generally includes the ISP information of user, domain and the ISP one-to-one correspondence, the main information domain is the domain of the user is authenticated and accounted by which RADIUS server.

2.2.19.3 Remote Authentication

Selecting "Advanced Application>AAA>Remote Authentication", in the navigation bar, you can configure Remote Authentication.

Remote Authentication 802.1x AAA Radius TACACS+

Authentication Mode Local ▼

Apply Cancel

【Parameter Description】

Parameter	Description
Authentication Mode	Authentication Mode: Local, Radius, Tacacs+

2.2.19.4 TACACS+ Server Setup

Selecting "Advanced Application>AAA>TACACS+ Server Setup", in the navigation bar, you can configure TACACS+ Server Setup.

TACACS+ Server Setup AAA MUSER

Authentication Server

Authentication Type ascii ▼

Encrypt Key ☒

Preemption Time 0 min (0-1440)

Index	IP Address	TCP Port	Shared Secret	TimeOut	Delete
1	0.0.0.0	49		5	☐
2		49		5	☐

Apply Cancel

【Parameter Description】

Parameter	Description
Authentication Type	Authentication Mode: ascii, Chap, pap
Preemption Time	The time range of Preemption Time: 0-1440 minutes

2.2.19.5 Radius Server Setup

Selecting "Advanced Application>AAA>Radius Server Setup", in the navigation bar, you can configure Radius Server Setup.

 **RADIUS Server Setup**
AAA **MUSER**

8021P Priority ☐
H3C Cams ☐
Bandwidth Limit ☐

Radius Host:

Host Name
Preemption Time min (0-1440)

Server	Index	IP Address	UDP Port	Shared Secret
Authentication Server	1	0.0.0.0	1812	Switch
	2	0.0.0.0	1812	
Accounting Server	1	0.0.0.0	1813	Switch
	2	0.0.0.0	1813	

Host	Authentication IP Address	Accounting IP Address	Delete
			Delete

【Parameter Description】

Parameter	Description
8021P Priority	After this function is turned on, if the user authentication is pass, it will modify the PVID of the user's port.
H3C Cams	In this feature, you can configure the version information of transmitting clients to the radius server through the radius attribute client-version.
Bandwidth limit	After this function is turned on, if the user authentication is pass, it will modify

the Bandwidth of the user's port.

2.2.20 EEE

Selecting "Advanced Application>EEE", The page can be configured to EEE.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

● EEE

Port	Enable
*	☐
GE0/0/1	☐
GE0/0/2	☐
GE0/0/3	☐
GE0/0/4	☐
GE0/0/5	☐
GE0/0/6	☐
GE0/0/7	☐
GE0/0/8	☐
GE0/0/9	☐
GE0/0/10	☐
GE0/0/11	☐
GE0/0/12	☐
GE0/0/13	☐
GE0/0/14	☐
GE0/0/15	☐
GE0/0/16	☐
GE0/0/17	☐
GE0/0/18	☐
GE0/0/19	☐
GE0/0/20	☐
GE0/0/21	☐
GE0/0/22	☐
GE0/0/23	☐
GE0/0/24	☐
GE0/1/1	☐
GE0/1/2	☐
GE0/1/3	☐
GE0/1/4	☐

2.2.21 ARP Safeguarding

Selecting "Advanced Application>ARP Safeguarding", The page can be configured to prevent arp flooding.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Loopback Detection

Spanning Tree Protocol

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

LLDP Protocol

AAA

EEE

ARP Safeguarding

ARP Anti-Flood

Global Configuration

ARP Anti-Flood

DISABLE

Action

drop-arp

Rate Limit

16

(1~100)pps

Recover Time

10

(0~1440)m

Apply

Del

Port Rate Limit Configuration

Port	Rate Limit(1~100)pps	Port	Rate Limit(1~100)pps
GE0/0/1	0	GE0/0/2	0
GE0/0/3	0	GE0/0/4	0
GE0/0/5	0	GE0/0/6	0
GE0/0/7	0	GE0/0/8	0
GE0/0/9	0	GE0/0/10	0
GE0/0/11	0	GE0/0/12	0
GE0/0/13	0	GE0/0/14	0
GE0/0/15	0	GE0/0/16	0
GE0/0/17	0	GE0/0/18	0
GE0/0/19	0	GE0/0/20	0
GE0/0/21	0	GE0/0/22	0
GE0/0/23	0	GE0/0/24	0
GE0/1/1	0	GE0/1/2	0
GE0/1/3	0	GE0/1/4	0

Apply

ARP Anti-Flood Entry

Src MAC	Src IP	Port	VLAN	Recover Time(m)	Recover MAC
---------	--------	------	------	-----------------	-------------

Refresh

Apply

【Parameter Description】

Parameter	Description
Global Configuration	Enable or disable ARP Anti-flood
Port Rate Limit	It can set Arp message speed limit for specific interface. If it exceeds the speed limit, it is considered to be under attack.

2.3 Management

Choose Management, and the following page appears. There are "Management & Maintenance", "Access Control ", "Diagnostic", "Syslog", configuration web pages.



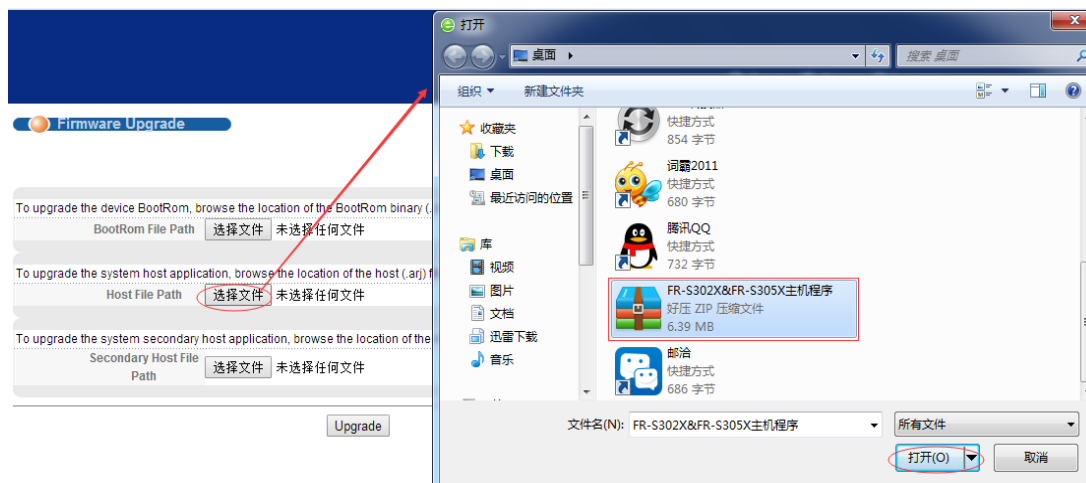
2.3.1 Management & Maintenance

Selecting "Management > Management & Maintenance", in the navigation bar, you can Upgrade Firmware , Restart System and Maintenance switch.

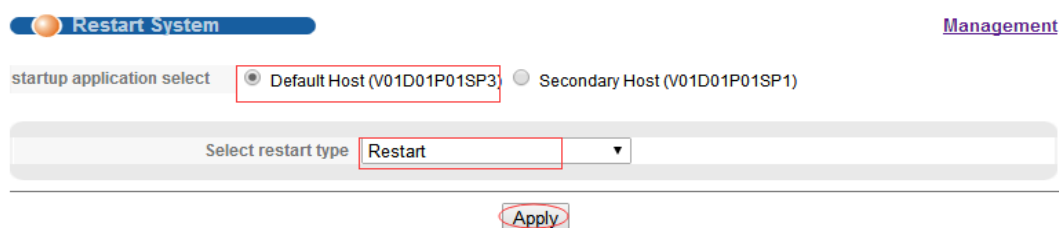


【Configuration Example】

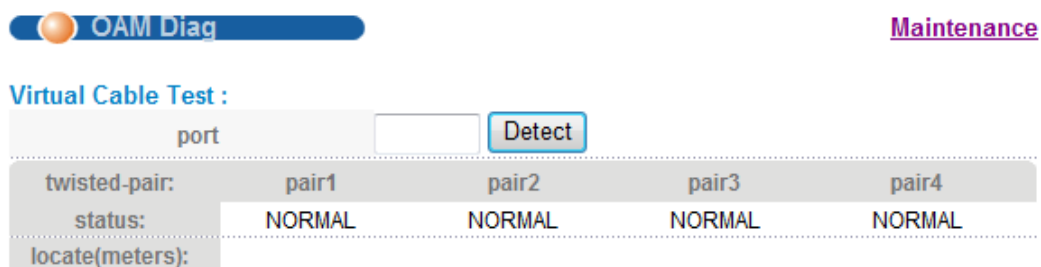
1. Firmware Upgrade



- Restart system. Restart type: Restart, Restart with Factory Defaults.

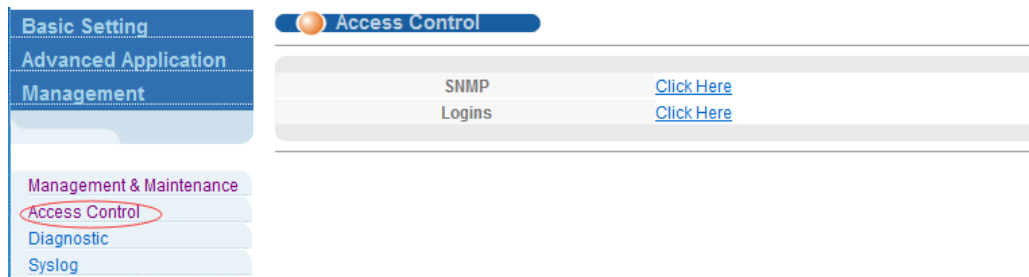


- OAM Diag, Virtual cable can be tested.



2.3.2 Access Control

Selecting "Management> Access Control", in the navigation bar, you can set SNMP and Logins.



2.3.2.1 SNMP

Selecting "Management> Access Control>SNMP", in the navigation bar, you can configure SNMP.

SNMP [Access Control](#) [User](#)

General Setting

Snmp Server	ENABLE ▼
Community Name	
Access privilege	Read-write ▼

Trap Destination

Version	IP	Port	Username
v2c ▼	0.0.0.0	162	public
v2c ▼	0.0.0.0	162	public
v2c ▼	0.0.0.0	162	public
v2c ▼	0.0.0.0	162	public

【Parameter Description】

Parameter	Description
Community Name	Community string, is equal to the NMS and Snmp agent communication between the password
Access privilege	Read-only: specify the NMS (Snmp host) of MIB variables can only be read, cannot be modified Read- write: specify the NMS (Snmp host) of MIB variables can only read, can also be modified
Version	Set version: v1, v2c, v3
IP	Set the IP address of the trap host

【Configuration Example】

Such as: Add a group name public community, access to Read-Write. Set host 192.168.1.100 to receive trap messages.
The specified version is v2c.

SNMP
Access Control
User

General Setting

Snm Server	ENABLE ▾
Community Name	
Access privilege	Read-write ▾

Trap Destination

Version	IP	Port	Username
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public

Apply
Cancel

2.3.2.2 User Information

Selecting "Management> Access Control>User Information", in the navigation bar, you can add user, set Security Level, Authentication, Privacy, Group, Password.

User Information
SNMP Setting

Username			
Security Level	noauth ▾		
Authentication	MD5 ▾	Password	
Privacy	DES ▾	Password	
Group	initial ▾		

Add
Cancel
Clear

Index	Username	SecurityLevel	Authentication	Privacy	Group	Delete
1	initialmd5	pri	MD5	DES	initial	☐
2	initialsha	pri	SHA	DES	initial	☐
3	initialnone	noauth	noauth	nopri	initial	☐

Delete
Cancel

【Parameter Description】

Parameter	Description
Username	Snmp username
Security Level	noauth auth pri
Authentication	MD5 SHA
Privacy	DES Privacy
Group	User group name
Password	Encrypted password

【Configuration Example】

Such as: Add group initial, add username user1.

User Information [SNMP Setting](#)

Username	user1	
Security Level	noauth	
Authentication	MD5	Password admin
Privacy	DES	Password admin
Group	initial	

Add **Cancel** **Clear**

2.3.2.3 Logins

Selecting "Management>Access Control>Logins", in the navigation bar, you can modify admin password, configurable ordinary users.

Logins [Access Control](#) [Super Password](#)
[Edit admin](#)

Old Password (1-32 characters)	
New Password (1-32 characters)	
Retype to confirm	
User privilege (0:Guest 1:User 2-14:Operator 15:Manager)	15 Administrator

[Modify](#)

Please record your new password whenever you change it. The system will lock you out if you have forgotten your password.

Edit Other Logins

Login	User Name	New Password	Retype to confirm	User privilege
1				0 Guest ▼
2				0 Guest ▼
3				0 Guest ▼
4				0 Guest ▼
5				0 Guest ▼
6				0 Guest ▼
7				0 Guest ▼
8				0 Guest ▼
9				0 Guest ▼
10				0 Guest ▼
11				0 Guest ▼
12				0 Guest ▼
13				0 Guest ▼
14				0 Guest ▼

【Parameter Description】

Parameter	Description
User privilege	0: Guest 1:User 2-14: Operator 15:Manager

【Configuration Example】

Logins [Access Control](#) [Super Password](#)
[Edit admin](#)

Old Password (1-32 characters)	
New Password (1-32 characters)	
Retype to confirm	
User privilege (0:Guest 1:User 2-14:Operator 15:Manager)	15 Administrator

[Modify](#)

Edit Other Logins

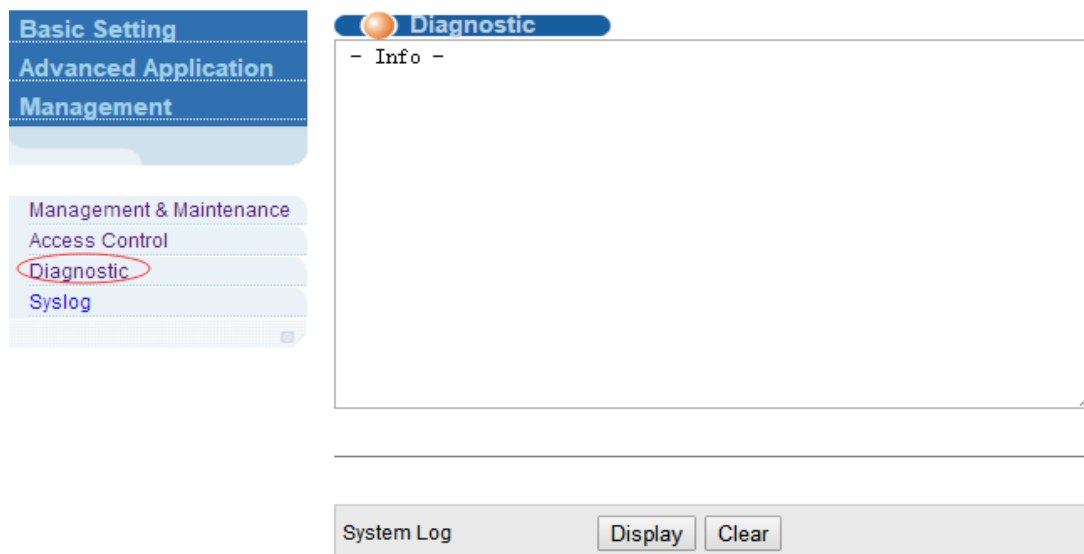
Login	User Name	New Password	Retype to confirm	User privilege
1	Anne	●●●●●●	●●●●●●	0 Guest ▼
2				0 Guest ▼
3				0 Guest ▼
4				0 Guest ▼
5				0 Guest ▼
6				0 Guest ▼
7				0 Guest ▼
8				0 Guest ▼
9				0 Guest ▼
10				0 Guest ▼
11				0 Guest ▼
12				0 Guest ▼
13				0 Guest ▼
14				0 Guest ▼
15				0 Guest ▼

Apply

Cancel

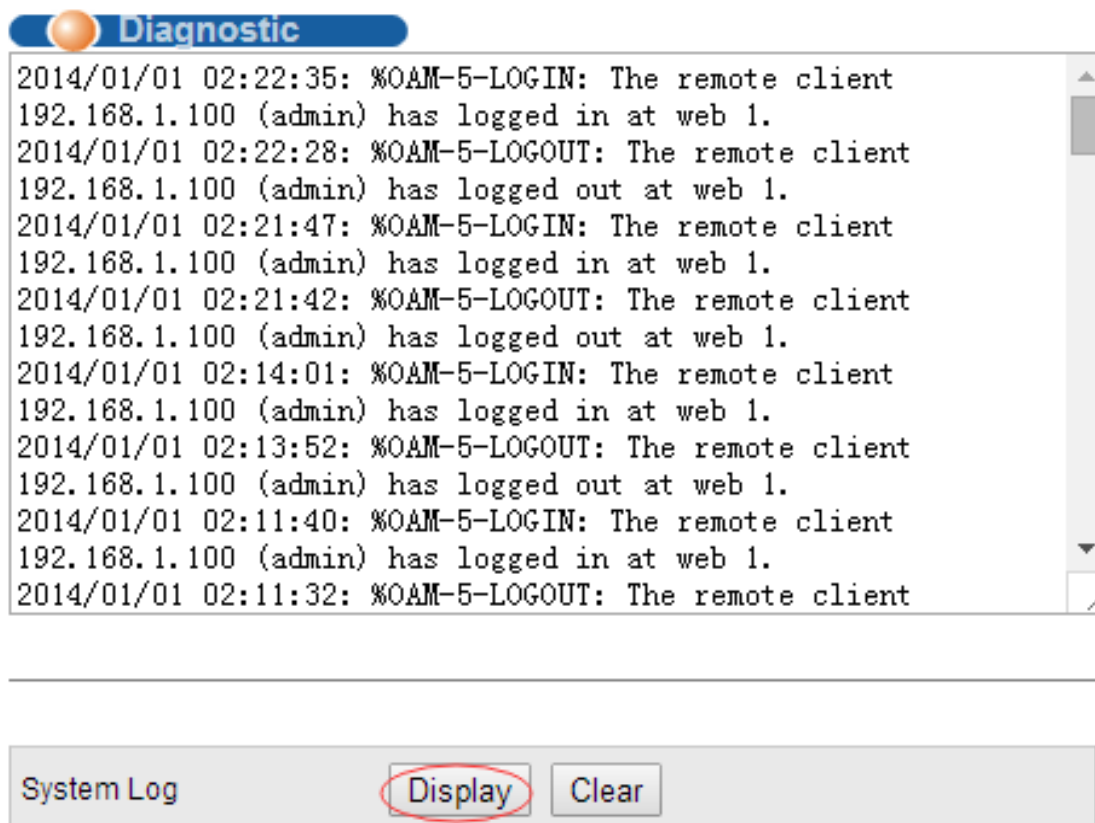
2.3.3 Diagnostic

Selecting "Management> Diagnostic", in the navigation bar, you can Display or Clear System Log.



【Configuration Example】

Such as: Display System Log.



2.3.4 Syslog

Selecting "Management> Syslog", in the navigation bar, you can configure syslog.

Logging type	Active	Facility
System	☒	local use 7

2.3.4.1 Syslog Setup

Selecting "Management>Syslog>Syslog Setup", in the navigation bar, you can start the logging function globally and the logging function of the corresponding module.

Logging type	Active	Facility
System	☒	local use 7

【Parameter Description】

Parameter	Description
Facility	local use 0-7
	kernel
	userlevel
	mail
	system
	sercurity_1-2
	sysogd
	lineprinter
	Networknews
	uucp
	clock_1-2
	ftp
	logaudit
	logalert

【Configuration Example】

Such as:


Syslog Setup

[Syslog Server Setup](#)

Syslog

Active ☒

Logging type	Active	Facility
System	☒	local use 7 ▼

Apply

Cancel

2.3.4.2 Syslog Server Setup

Selecting "Management>Syslog>Syslog Server Setup", in the navigation bar, you can set syslog server.


Syslog Server Setup

[Syslog Setup](#)

Active	☐
Server Address	0.0.0.0
Log Level	Level 0 ▼

Add

Cancel

Clear

Index	Active	IP Address	Log Level	Delete
Delete Cancel				

【Parameter Description】

Parameter	Description
Server Address	Syslog Server Address
Log Level	Level 0 Level 0-1 Level 0-2 Level 0-3 Level 0-4 Level 0-5 Level 0-6 Level 0-7
Server Address	Syslog Server Address

【Instructions】

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

【Configuration Example】

Such as: 1)set server address is 192.168.1.100.

**Syslog Server Setup**[Syslog Setup](#)

Active	☒
Server Address	192.168.1.100
Log Level	Level 0 ▼

Add Cancel Clear

Index	Active	IP Address	Log Level	Delete
1	Yes	192.168.1.100	0	☐

Delete Cancel

Appendix: Technical Specifications

Hardware Specifications		
Standards and Protocols	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3x, IEEE802.3z, IEEE802.3ad, IEEE802.1P, IEEE802.1Q IEEE802.3at,IEEE802.3af	
Interface	24 x 10/100/1000Mbps ports 4 x 1000Mbps SFP ports 1x Console port	
Network Media	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:62.5μm/50μm MMF(2m~550m) 1000Base-LX:62.5μm/50μm MMF(2m~550m) or 10μm SMF (2m~5000m)	
Transfer Method	Store-and-Forward	
MAC Address Table	8K	
Switching Capacity	56Gbps	
Packet Forwarding Rate	41.66Mpps	
Packet Buffer	4.1MBytes	
Jumbo Frame	9KBytes	
PoE Ports(RJ45)	24x PoE ports compliant with 802.3at/af	
Power Pin Assignment	1/2(+),3/6(-)	
PoE Budget	370W	
LED indicators	Per Device	Power&SYS : Green
	Per Port	10/100Mbps Link/Act:Orange 1000Mbps Link/Act: Green PoE: Yellow
Power Supply	100~240VAC,50/60HZ,400W	
Power Consumption	Maximum(PoE on): 430W(220V/50Hz)	
Dimensions (W x D x H)	440*208*44mm (19" metal case)	
Environment	Operating Temperature: 0℃~45℃ Storage Temperature: -40℃~70℃ Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing	

Software Specification

System	IP Configuration(IPV4、IPV6)
	User Configuration
	Time Settings(SNTP)
	Log Management
	SNMP Management(V2)
	RMON
Port	Port Configuration
	Link Aggregation(static、Lacp)
	Port Mirroring
	Jumbo Frame
	Port Error Disabled Configuration
Vlan	Port based VLAN
	Protocol based VLAN
IGMP	IGMP Snooping (V2、V3)
	Multicast group (256)
STP	IEEE 802.1D STP
	IEEE 802.1W RSTP
	IEEE 802.1S MSTP
Security	Broadcast / Uncast / Multicast Storm Control
	IEEE 802.1x
	DHCP Snooping (IP、MAC、Port)
ACL	MAC-Based ACL
	MAC-Based ACE
	IPv4-Based ACL
	IPv4-Based ACE
QoS	WRR (Weighted Round Robin)
	Port based QoS
	IEEE 802.1p Class of Service
	DSCP-based QoS
	QoS basic mode
	QoS advanced mode (Policy based)
Bandwidth Control	Ingress Port
	Ingress VLAN
	Egress Port

MAC Address Setting	Egress Queue
	Static Mac Setting
	MAC Filtering
	Dynamic Address Learn/Setting
	Rma Setting
LLDP	LLDP Port Setting
	MED Network Policy
Management	System Status
	Ping Test
	Factory Reboot Switch
	Backup/Upgrade Manager
	Configuration Manager