

24 Port Nway Gigabit Ethernet Web Smart Switch



User's Manual

Web Smart Switch

□. Features Overview

- Supports real-time status (link, speed, duplex) of each port
- Supports port setting for enable or disable operation (the 1st port can't be disabled)
- Supports port setting for N-Way or force mode operation
- Supports Broadcast Storm Protection
- Supports Port-bases VLAN
- Supports priority queues for QoS

□. Configure

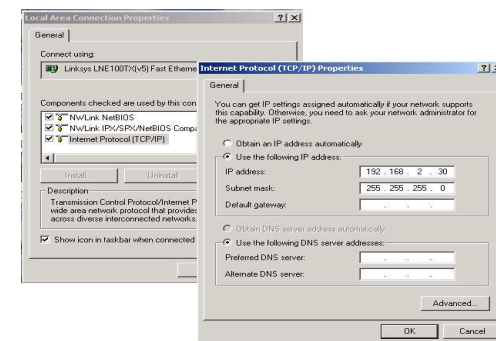
Please follow the steps to configure this Web Smart switch.

Step 1:

Use a twisted pair cable to connect this switch to your PC.

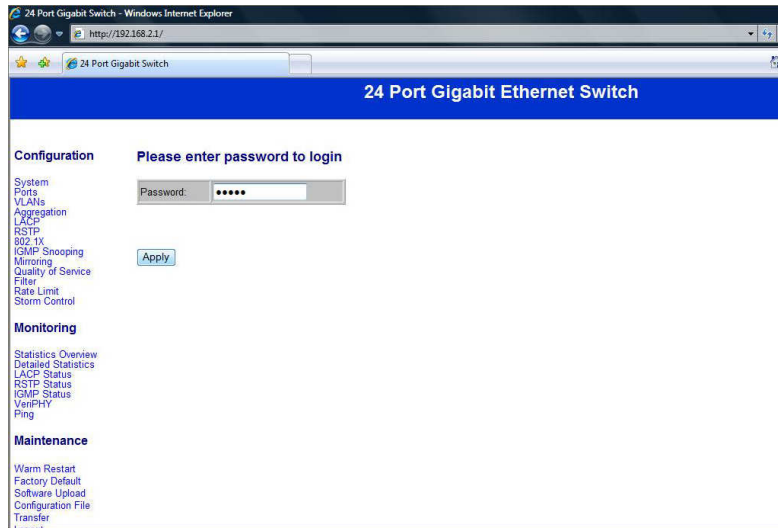
Step 2:

Set your PC's IP to 192.168.2.xx.



Step 3:

Open the browser (like IE...) and go to [http:// 192.168.2.1](http://192.168.2.1)
You will see the login screen as below:



Please key in the password to pass the authentication.

Password: admin

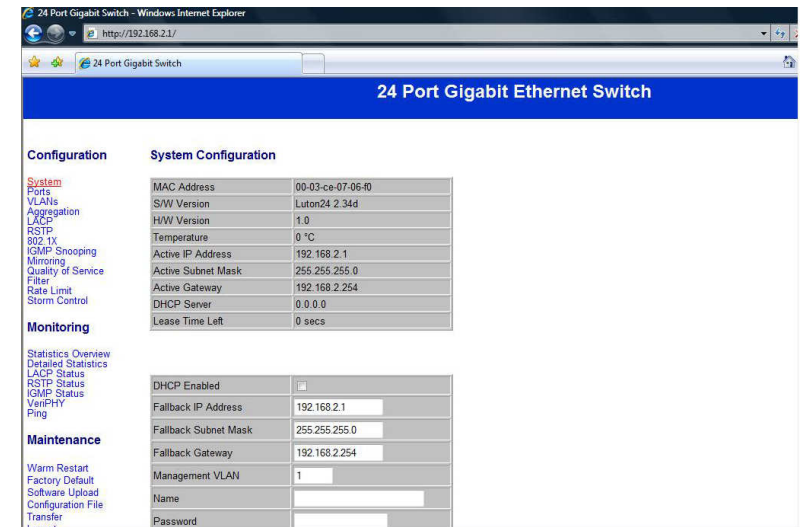
After the authentication procedure, the switch can be used now.

Step 4:

On the home page, select the configuration by clicking the icon as below:

- **Configuration**
- **Monitoring**
- **Maintenance**
- **Logout**

Configuration: System Configuration

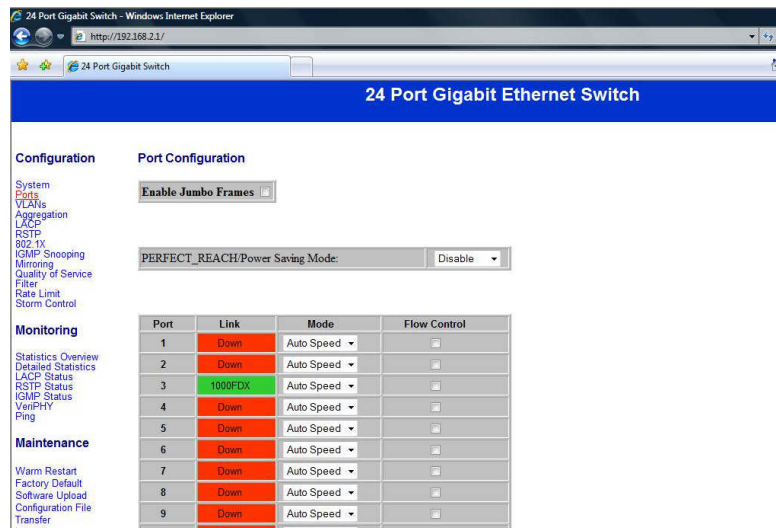


It shows system status, such as: MAC address, system firmware version and so on.

You can change the user name, the password and IP address, and click "Apply" to confirm the new change.

Afterwards, you can reset the switch by turning off and turning on it to take the new user name, the password and IP address effectively.

Configuration: Port Configuration

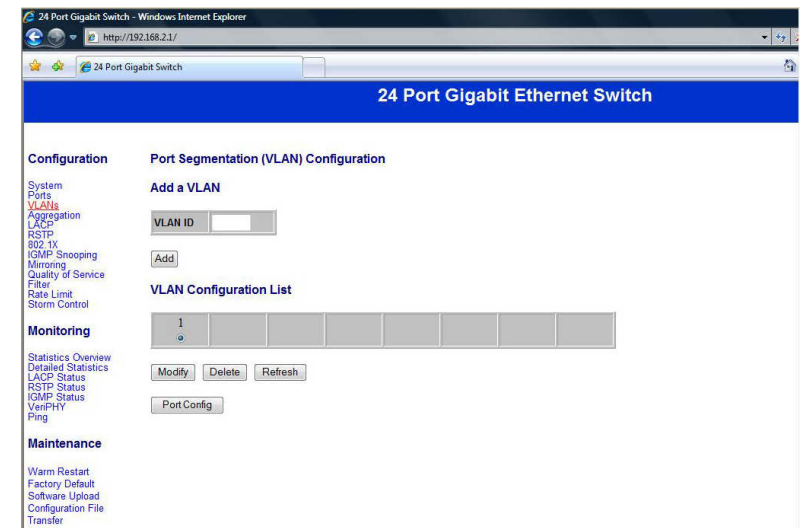


You can enable or disable Jumbo Frames by clicking the checking box.

Select the "Port no." which you want to configure the mode below,

- Auto speed
- enable/disable the port
- 10M/100M/1000M
- full/half-duplex
- enable/disable flow control

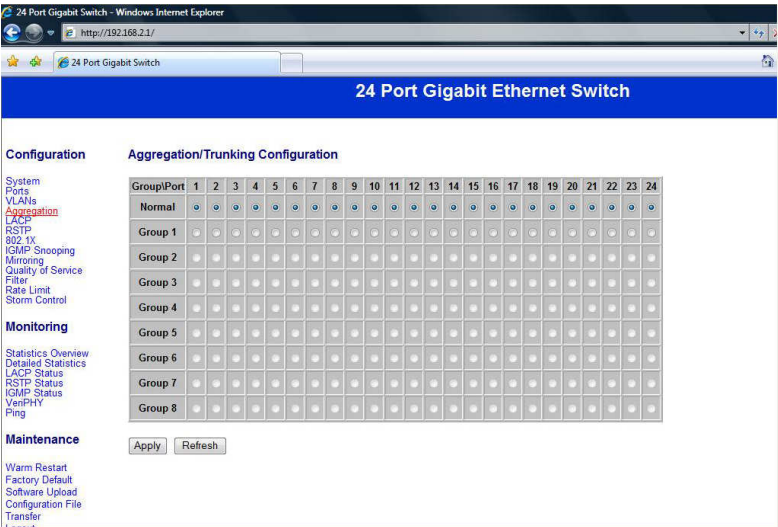
Configuration: VLAN Configuration



There are 16 VLAN groups.

Select and add a group into "VLAN ID" and then click the port number which you want to put into the selected VLAN group.

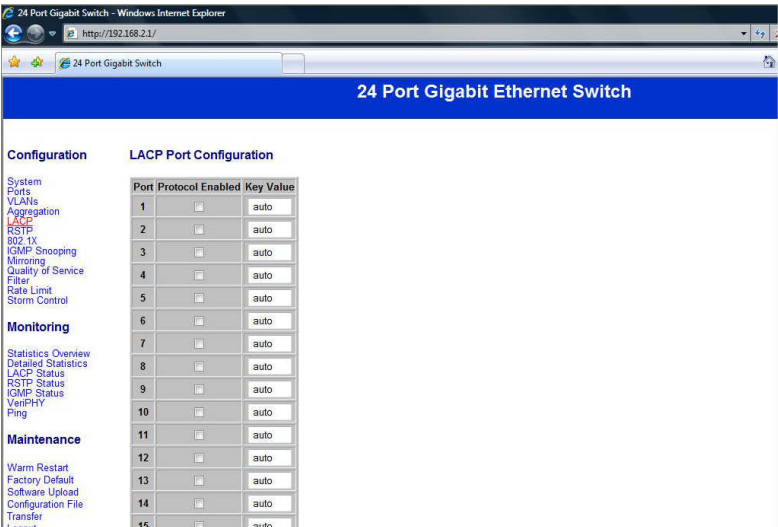
Configuration: Aggregation/Trunk Configuration



Set up port trunk groups and then click the port number you want to include into the same group.

There are eight groups to choose and the maximum for one group is 24 ports.

Configuration: LACP Port configuration



Select the port number which you want to enable/disable its protocol.

Configuration: RSTP Configuration

24 Port Gigabit Ethernet Switch

Configuration

System

Ports

VLANs

Aggregation

LACP

RSTP

802.1X

IGMP Snooping

Mirroring

Quality of Service

Filter

Rate Limit

Storm Control

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Detailed Statistics

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RSTP Status

IGMP Status

VenPHY

Ping

Maintenance

Warm Restart

Factory Default

Software Upload

Configuration File

Transfer

RSTP System Configuration

System Priority

32768

Hello Time

2

Max Age

20

Forward Delay

15

Force version

Normal

RSTP Port Configuration

Port	Protocol	Enabled	Edge	Path Cost
Aggregations		☐		
1		☐	☒	auto
2		☐	☒	auto
3		☐	☒	auto
4		☐	☒	auto
5		☐	☒	auto
6		☐	☒	auto

Select the port number which you want to enable/disable its protocol.

Configuration: 802.1x Configuration

24 Port Gigabit Ethernet Switch

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802.1X Configuration

Mode:

Disabled

RADIUS IP

0.0.0.0

RADIUS UDP Port

1812

RADIUS Secret

Port	Admin State	Port State			
1	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
2	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
3	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
4	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
5	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
6	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
7	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
8	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
9	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
10	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics
11	Force Authorized	802.1X Disabled	Re-authenticate	Force Reinitialize	Statistics

Select the “Port no.” which you want to configure the mode below,
- Auto
- Force Authorized
- Force Unauthorized

Configuration: IGMP Configuration

The screenshot shows the web interface of a 24 Port Gigabit Ethernet Switch. The left sidebar contains a navigation menu with categories: Configuration, Monitoring, and Maintenance. Under Configuration, there are links for System, Ports, VLANs, Aggregation, LACP, RSTP, 802.1X, IGMP Snooping (highlighted in red), Mirroring, Quality of Service, Filter, Rate Limit, and Storm Control. The main content area is titled '24 Port Gigabit Ethernet Switch' and shows the 'IGMP Configuration' page. It includes a section for 'IGMP Enabled' with a checkbox, a 'Router Ports' section with checkboxes for ports 1 through 24, and an 'Unregistered IPMC Flooding enabled' checkbox. Below these is a table with columns 'VLAN ID', 'IGMP Snooping Enabled', and 'IGMP Querying Enabled'. The table shows VLAN 1 with both checkboxes checked. At the bottom, there are 'Apply' and 'Refresh' buttons.

VLAN ID	IGMP Snooping Enabled	IGMP Querying Enabled
1	☒	☒

You can enable or disable IGMP by clicking the checking box.

Select the "Port no." which you want to configure the mode.

Configuration: Port Mirror configuration

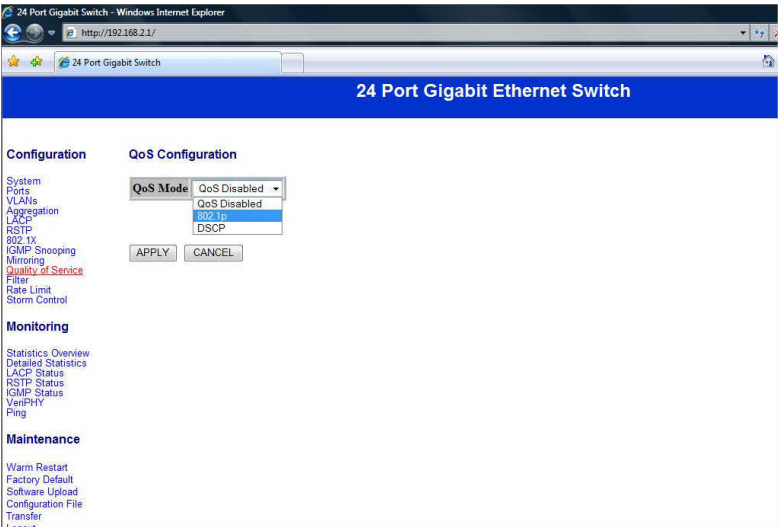
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Port	Mirror Source
1	☐
2	☐
3	☐
4	☐
5	☐
6	☐
7	☐
8	☐
9	☐
10	☐
11	☐
12	☐
13	☐
14	☐
15	☐
16	☐
17	☐

Port Mirroring is for mirror the traffic from Source port to Destination port.

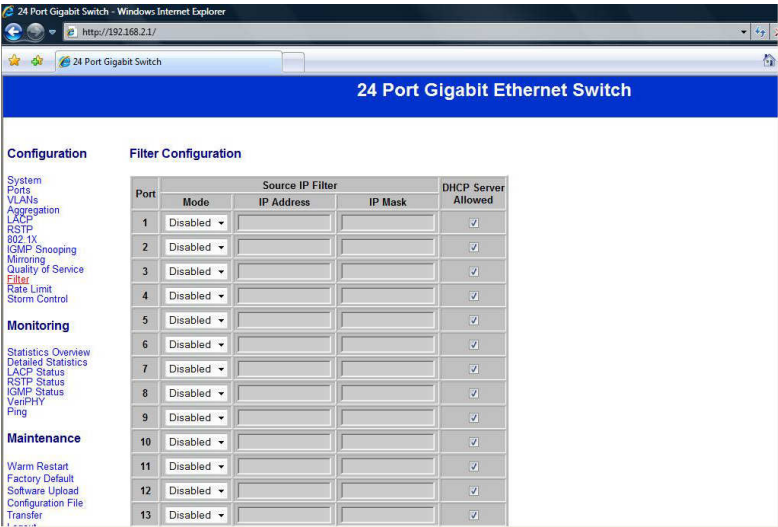
Select the Destination port from port 1 to port 24, and then select the Source port by clicking the checking box of each port.

Configuration: QoS Configuration



You can enable or disable QoS by clicking the checking box. If you enable QoS, you can select the class of service for each port.

Configuration: Filter Configuration



Select the "Port no." which you want to configure the mode to enable/disable filtering IP address.

Configuration: Rate Limit Configuration

24 Port Gigabit Ethernet Switch

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
- 802.1X
- IGMP Snooping
- Mirroring
- Quality of Service
- Filter
- Rate Limit
- Storm Control

Monitoring

- Statistics Overview
- Detailed Statistics
- LACP Status
- RSTP Status
- IGMP Status
- VenPHY
- Ping

Maintenance

- Warm Restart
- Factory Default
- Software Upload
- Configuration File
- Transfer

Rate Limit Configuration

Port	Policer	Shaper
1	No Limit	No Limit
2	No Limit	No Limit
3	No Limit	No Limit
4	No Limit	No Limit
5	No Limit	No Limit
6	No Limit	No Limit
7	No Limit	No Limit
8	No Limit	No Limit
9	No Limit	No Limit
10	No Limit	No Limit
11	No Limit	No Limit
12	No Limit	No Limit
13	No Limit	No Limit
14	No Limit	No Limit
15	No Limit	No Limit
16	No Limit	No Limit

Select the “Port no.” which you want to configure the mode of the speed.

Configuration: Storm Control configuration

24 Port Gigabit Ethernet Switch

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
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- IGMP Snooping
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- Quality of Service
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Storm Control Configuration

Storm Control	
Number of frames per second	
ICMP Rate	No Limit
Learn Frames Rate	No Limit
Broadcast Rate	No Limit
Multicast Rate	No Limit
Flooded unicast Rate	No Limit

Apply Refresh

1k
2k
4k
8k
16k
32k
64k
128k
256k
512k
1024k
2048k
4096k
8192k
16384k
32768k
No Limit

You can set up storm control by configuring the modes.

Monitoring: Statistics Overview for All Ports

24 Port Gigabit Ethernet Switch

Statistics Overview for all ports

Configuration

System

Ports

VLANs

Aggregation

LACP

RSTP

802.1X

IGMP Snooping

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Clear

Refresh

Port	Tx Bytes	Tx Frames	Rx Bytes	Rx Frames	Tx Errors	Rx Errors
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	98880	207	63304	539	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0
12	0	0	0	0	0	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0

You can read statistics for all ports.

Monitoring: Detailed Statistics

24 Port Gigabit Switch - Windows Internet Explorer

http://192.168.2.1/

24 Port Gigabit Switch

24 Port Gigabit Ethernet Switch

Statistics for Port 1

Configuration

Clear Refresh

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

Receive Total				Transmit Total			
Rx Packets	0			Tx Packets	0		
Rx Octets	0			Tx Octets	0		
Rx High Priority Packets	-			Tx High Priority Packets	-		
Rx Low Priority Packets	-			Tx Low Priority Packets	-		
Rx Broadcast	-			Tx Broadcast	-		
Rx Multicast	-			Tx Multicast	-		
Rx Broad- and Multicast	0			Tx Broad- and Multicast	0		
Rx Error Packets	0			Tx Error Packets	0		

Monitoring

Statistics Overview

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Receive Size Counters		Transmit Size Counters	
Rx 64 Bytes	-	Tx 64 Bytes	-
Rx 65-127 Bytes	-	Tx 65-127 Bytes	-
Rx 128-255 Bytes	-	Tx 128-255 Bytes	-
Rx 256-511 Bytes	-	Tx 256-511 Bytes	-

Warm Restart

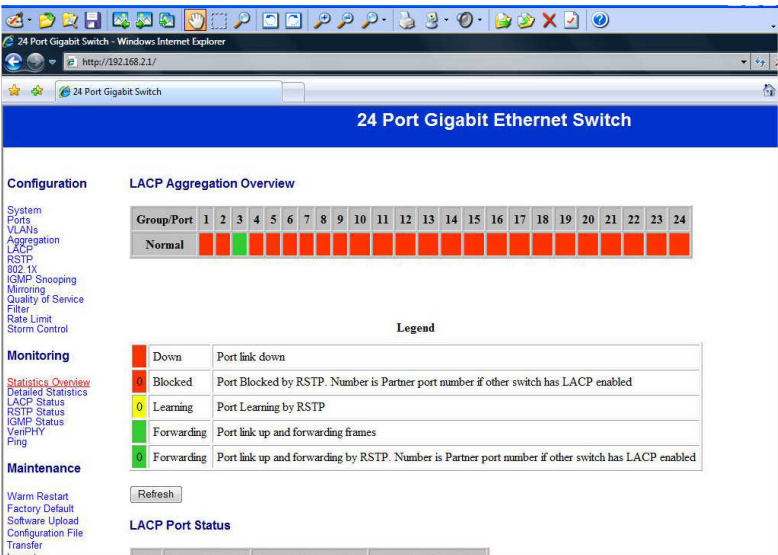
Factory Default

Software Upload

Configuration File Transfer

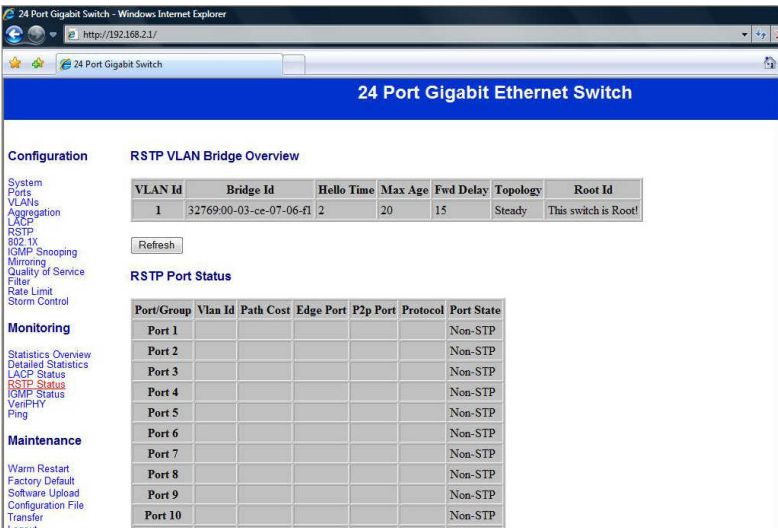
You can have detailed statistics of each port by clicking the port number.

Monitoring: LACP Status



You can read LACP status for LACP ports.

Monitoring: RSTP Status



You can read RSTP status for RSTP ports.

Monitoring: IGMP Status

24 Port Gigabit Ethernet Switch

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
- 802.1X
- IGMP Snooping
- Mirroring
- Quality of Service
- Filter
- Rate Limit
- Storm Control

IGMP Status

VLAN ID	Querier	Queries transmitted	Queries received	v1 Reports	v2 Reports	v3 Reports	v2 Leaves
1	Idle	0	0	0	0	0	0

Refresh

Monitoring

- Statistics Overview
- Detailed Statistics
- LACP Status
- RSTP Status
- IGMP Status
- VeriPHY
- Ping

Maintenance

- Warm Restart
- Factory Default
- Software Upload
- Configuration File Transfer

You can read IGMP status for IGMP ports.

Monitoring: VeriPHY Cable Diagnostics

24 Port Gigabit Ethernet Switch

Configuration

- System
- Ports
- VLANs
- Aggregation
- LACP
- RSTP
- 802.1X
- IGMP Snooping
- Mirroring
- Quality of Service
- Filter
- Rate Limit
- Storm Control

VeriPHY Cable Diagnostics

Port

Port 1

Mode

Full

Anomaly

Anomaly w/o X-pair

Apply

Cable Status

Pair	Length [m]	Status
A	-	-
B	-	-
C	-	-
D	-	-

Monitoring

- Statistics Overview
- Detailed Statistics
- LACP Status
- RSTP Status
- IGMP Status
- VeriPHY
- Ping

Maintenance

- Warm Restart
- Factory Default
- Software Upload
- Configuration File Transfer

You can read VeriPHY cable status for all ports which you want to check by clicking the port number and the mode.

Monitoring: Ping Parameters

The screenshot shows the web interface of a 24 Port Gigabit Ethernet Switch. The browser address bar shows <http://192.168.2.1/>. The page title is "24 Port Gigabit Ethernet Switch". The left sidebar contains a navigation menu with the following items: Configuration, Ports, VLANs, Aggregation, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit, Storm Control, Monitoring, Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status, VeriPHY, Ping, Maintenance, Warm Restart, Factory Default, Software Upload, Configuration File, and Transfer. The main content area is titled "Ping Parameters" and contains the following fields: Target IP address (text input), Count (dropdown menu set to 1), and Time Out (in secs) (dropdown menu set to 1). There is an "Apply" button below these fields. Below the configuration fields is a "Ping Results" table with the following data:

Ping Results	
Target IP address	0.0.0.0
Status	Test complete
Received replies	0
Request timeouts	0
Average Response Time (in ms)	0

At the bottom of the main content area, there is a "Refresh" button.

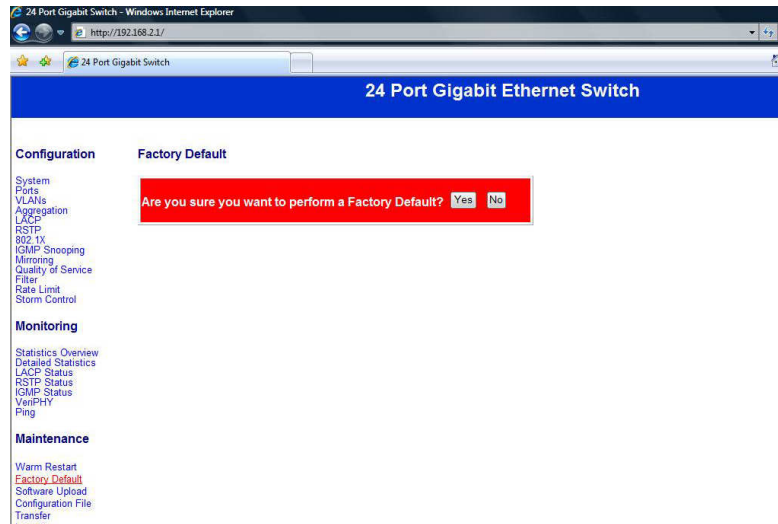
You can set target IP address by setting the mode which you want.

Monitoring: Warm Restart

The screenshot shows the web interface of a 24 Port Gigabit Ethernet Switch. The browser address bar shows <http://192.168.2.1/>. The page title is "24 Port Gigabit Ethernet Switch". The left sidebar contains a navigation menu with the following items: Configuration, Ports, VLANs, Aggregation, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit, Storm Control, Monitoring, Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status, VeriPHY, Ping, Maintenance, Warm Restart, Factory Default, Software Upload, Configuration File, and Transfer. The main content area is titled "Warm Restart" and contains a red confirmation dialog box with the text "Are you sure you want to perform a Warm Restart?" and two buttons: "Yes" and "No".

You can select yes/no to do the warm restart, and then the new settings will change according to your selection.

Maintenance: Factory Default



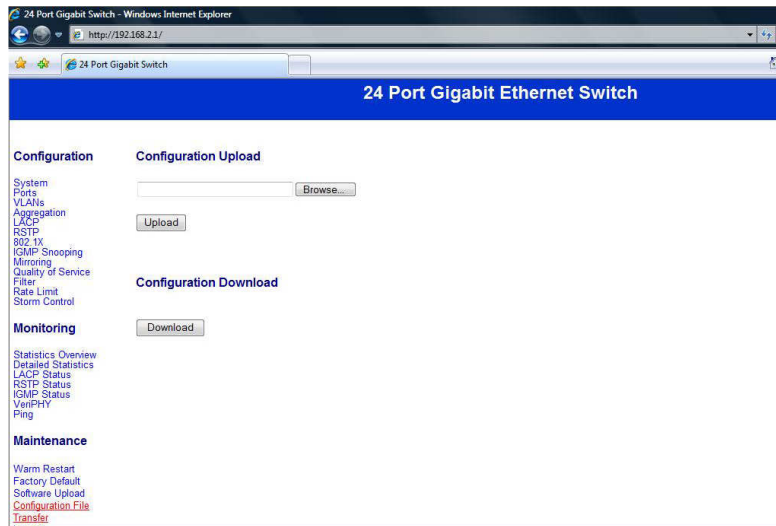
You can select yes/no to perform a Factory Default, and then the new settings will change according to your selection.

Maintenance: Software Upload



Follow the instruction on the screen to upload the new software.

Maintenance: Configuration Upload



Follow the instruction on the screen to upload and download the configuration.

Logout

When you forgot your IP or password, please use the reset button for the factory default setting?

Please take the following steps to reset the Web Smart Switch back to the original default:

Step 1:

Turn on the Web Smart Switch

Step 2:

Press and hold the reset button continuously for 15 seconds and release the reset button.

Step 3:

The switch will reboot for 20 seconds and the configuration of switch will back to the default setting.

Please enter password to login

Password:

Key in the password to pass the authentication; the user password is "admin".

IP: 192.168.2.1
Password: admin