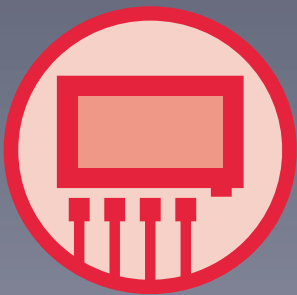


**20 Port Gigabit + 4 Giga Combo**

**UTP/SFP Web Smart Switch**

**Model: 300-7620GE4GC**



Active

## **FCC Warning**

This device has been tested and found to comply with limits for a Class B digital device, pursuant to Part 2 and 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

## **CE Warning**

This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

## **Introduction**

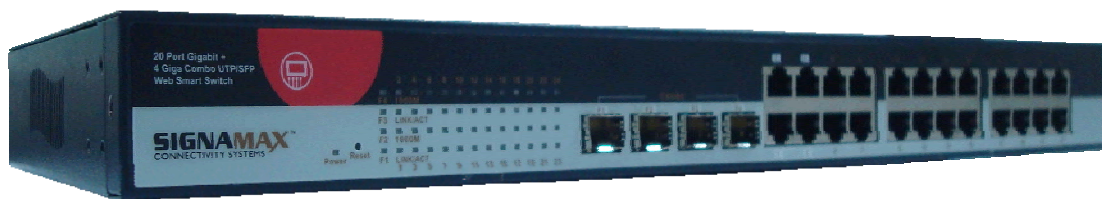
The Switch provides 24 10/100/1000M ports. It was designed for easy installation and high performance in an environment where traffic on the network and the number of user increase continuously. With newest Gigabit chip set, 19" Gigabit Ethernet switch can fully support highest speed without hanging on problem even when Full-Duplex full loaded.

The switch also provides automatic crossover detection functionality on each port. It is simple and friendly to up-link to another switch without crossover cable.

The rack-mount size was specifically designed for medium to large workgroups. The Switch can be installed where space is limited; moreover it provides smooth network migration and easy upgrade to network capacity. The 19" size can be rack-mount on 19" cabinet.

## Key Features

- Complies with the IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet and IEEE 802.3ab Gigabit Ethernet Standards
- 24 Port 10/100/1000M Nway (Auto-negotiation) Switch
- 19" inch rack mount size
- Non-blocking & Non-head-of-line blocking full wire speed forwarding
- Store-and-forward operation support
- Embedded 500 KB packet buffer
- Supports 9.6 KB JUMBO packet
- Provides 8K MAC address entry
- Supports broadcast storm filtering
- All ports provide Auto-Negotiation and Auto -MDI/ MDI-X functions
- Supports flow control: Back pressure for Half-duplex and IEEE 802.3x for Full-duplex mode
- Smart plug & play



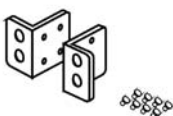
## Package Contents

Before you start to install this Switch, please verify your package contain the following items:

- One Gigabit Rack-mount Ethernet Switch
- Rack-mount Kit for Rack Installation
- One AC Power Cord
- One User's Manual



Power Cord



Rack-mount Kit



Note: If any of these items is found missing or damaged, please contact your local supplier for replacement.

## Front Panel (LEDs)

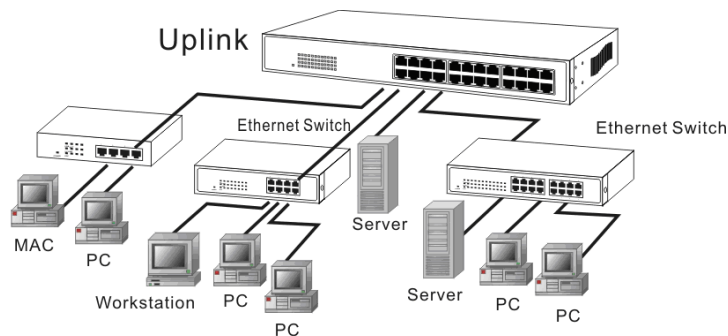
### **LED Indicators of 24 Ports Gigabit Ethernet Switch**

LED	Status	Description	No. Of LED
Power	On	Power on	Power
1000M	On	Link 1000Mbps	24 (1~24)
	off	Link 10/100Mbps	
Link/ ACT	On	Link	24 (1~24)
	Flashing	Data activating	24 (1~24)

## Connections

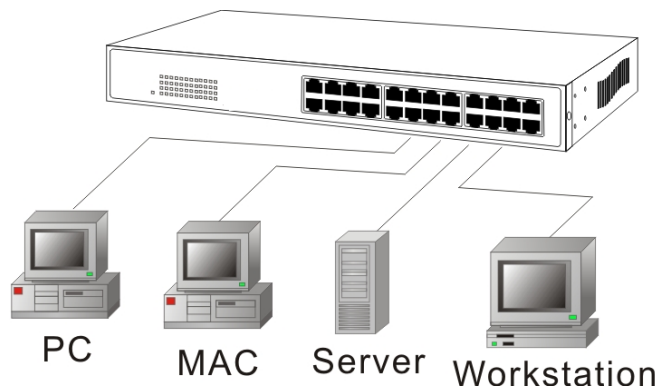
### **Switch/Hub to this 24 Ports Gigabit Ethernet Switch**

This switch provides automatic crossover detection functionality for any port. It is simple and friendly to up-link to another switch without crossover cable.



### **PC/Other devices to this 24 Ports Gigabit Ethernet Switch**

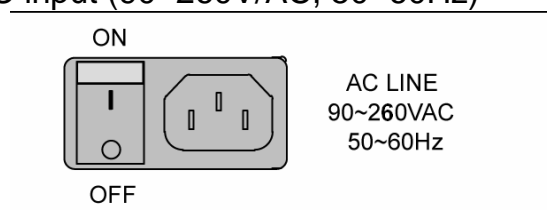
Via a twisted pair cable straight through, this switch can be connected to PCs, servers and other network devices.



## Rear Panel (Power)

### **AC input**

AC input (90~260V/AC, 50~60Hz)



## Technical Specifications

Standards	IEEE 802.3 10 BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3x Flow control
Features	Number of Ports: 24 MAC Address: 8K Buffer Memory: 500 KB Jumbo Frames: 9.6 KB Method: Store and Forward
Filtering/ Forwarding Rates	1000Mbps port – 1,488,000pps 100Mbps port – 148,800pps 10Mbps – 14,880pps
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP 100BaseTX Cat. 5 UTP/STP 1000BaseT Cat. 5E UTP/STP
LED Indicators	Per Port: LINK/ACT, 1000M Per Unit: Power
Power Requirement	100~240V/AC, 50~60Hz
Power Consumption	25 Watts (Max)
Dimensions	440 x 220 x 44 mm (L x W x H)
Weight	3 kg
Operating Temperature	0 to 55°C
Storage Temperature	-20 to 90°C
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class B, CE

## Web Smart Switch

### I . 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

### II . Configure

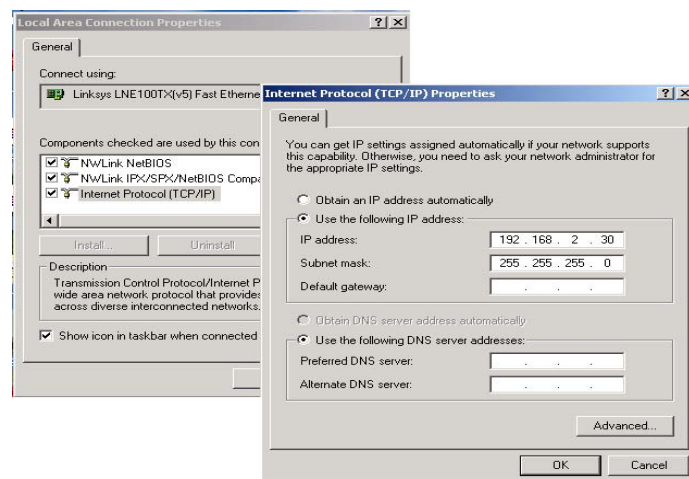
Please follow the steps to configure this Web Smart switch.

#### Step 1:

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

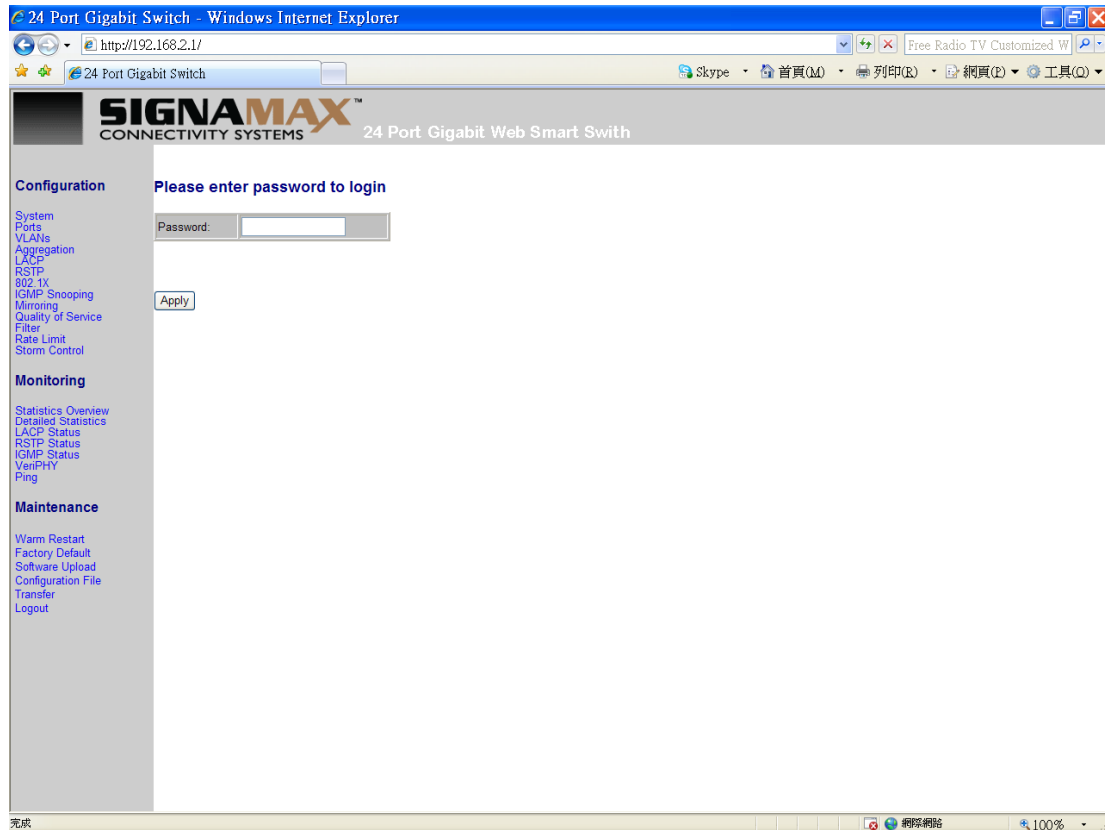
#### Step 2:

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

The screenshot shows the configuration page for a SIGNAMAX 24 Port Gigabit Web Smart Switch. The browser window title is "24 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page has a navigation menu on the left with categories: Configuration, Monitoring, and Maintenance. The main content area is titled "System Configuration" and contains two tables of configuration parameters.

System Configuration	
MAC Address	00-03-ce-07-00-6c
S/W Version	G24 V3.0.0
H/W Version	1.0
Temperature	0 °C
Active IP Address	192.168.2.1
Active Subnet Mask	255.255.255.0
Active Gateway	192.168.2.254
DHCP Server	0.0.0.0
Lease Time Left	0 secs

DHCP Enabled	<input type="checkbox"/>
Fallback IP Address	192.168.2.1
Fallback Subnet Mask	255.255.255.0
Fallback Gateway	192.168.2.254
Management VLAN	1
Name	<input type="text"/>
Password	<input type="password"/>
Inactivity Timeout (secs)	0
SNMP enabled	<input checked="" type="checkbox"/>
SNMP Trap destination	0.0.0.0
SNMP Read Community	public
SNMP Write Community	private
SNMP Trap Community	public

At the bottom of the configuration area, there are "Apply" and "Refresh" buttons.

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

Port	Link	Mode	Flow Control
1	Down	Auto Speed	<input type="checkbox"/>
2	1000FDX	Auto Speed	<input type="checkbox"/>
3	Down	Auto Speed	<input type="checkbox"/>
4	Down	Auto Speed	<input type="checkbox"/>
5	Down	Auto Speed	<input type="checkbox"/>
6	Down	Auto Speed	<input type="checkbox"/>
7	Down	Auto Speed	<input type="checkbox"/>
8	Down	Auto Speed	<input type="checkbox"/>
9	Down	Auto Speed	<input type="checkbox"/>
10	Down	Auto Speed	<input type="checkbox"/>
11	Down	Auto Speed	<input type="checkbox"/>
12	Down	Auto Speed	<input type="checkbox"/>
13	Down	Auto Speed	<input type="checkbox"/>
14	Down	Auto Speed	<input type="checkbox"/>
15	Down	Auto Speed	<input type="checkbox"/>
16	Down	Auto Speed	<input type="checkbox"/>
17	Down	Auto Speed	<input type="checkbox"/>
18	Down	Auto Speed	<input type="checkbox"/>

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

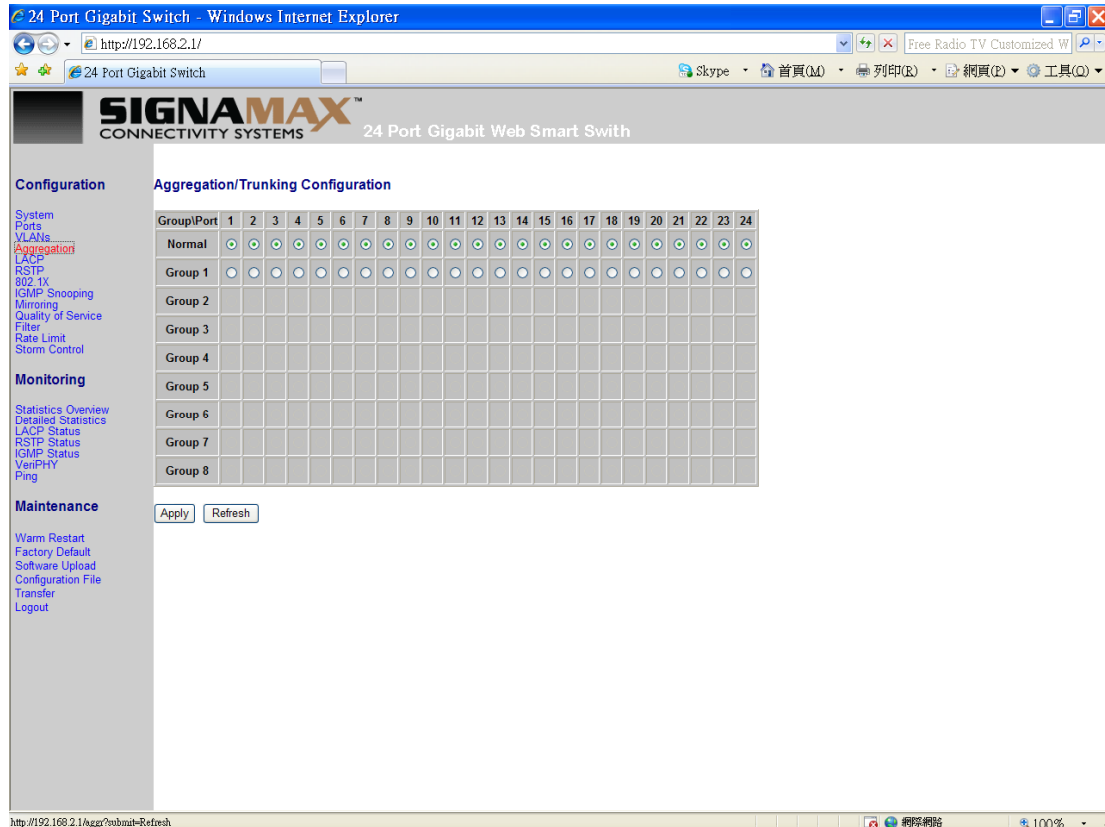
## Configuration: VLAN Configuration



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

The screenshot shows the web interface for a 24 Port Gigabit Switch. The main content area is titled "LACP Port Configuration" and contains a table with the following data:

Port	Protocol Enabled	Key Value
1	<input type="checkbox"/>	auto
2	<input type="checkbox"/>	auto
3	<input type="checkbox"/>	auto
4	<input type="checkbox"/>	auto
5	<input type="checkbox"/>	auto
6	<input type="checkbox"/>	auto
7	<input type="checkbox"/>	auto
8	<input type="checkbox"/>	auto
9	<input type="checkbox"/>	auto
10	<input type="checkbox"/>	auto
11	<input type="checkbox"/>	auto
12	<input type="checkbox"/>	auto
13	<input type="checkbox"/>	auto
14	<input type="checkbox"/>	auto
15	<input type="checkbox"/>	auto
16	<input type="checkbox"/>	auto
17	<input type="checkbox"/>	auto
18	<input type="checkbox"/>	auto
19	<input type="checkbox"/>	auto
20	<input type="checkbox"/>	auto
21	<input type="checkbox"/>	auto
22	<input type="checkbox"/>	auto

The left sidebar contains a navigation menu with categories: Configuration, Monitoring, and Maintenance. The Configuration menu includes System, Ports, VLANs, Aggregation, LACP, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit, and Storm Control. The Monitoring menu includes Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status, VeriPHY, and Ping. The Maintenance menu includes Warm Restart, Factory Default, Software Upload, Configuration File Transfer, and Logout.

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

## Configuration: RSTP Configuration

The screenshot shows the web interface for a 24 Port Gigabit Switch. The browser address bar shows <http://192.168.2.1/>. The page title is "24 Port Gigabit Web Smart 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
- VeriPHY
- Ping

**Maintenance**

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

**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	<input type="checkbox"/>		
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto
13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	auto

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

## Configuration: 802.1x Configuration

The screenshot shows the web interface for a 24 Port Gigabit Switch. The main configuration area is titled "802.1X Configuration".

**Configuration Settings:**

- Mode: Disabled
- RADIUS IP: 0.0.0.0
- RADIUS UDP Port: 1812
- RADIUS Secret: (empty field)

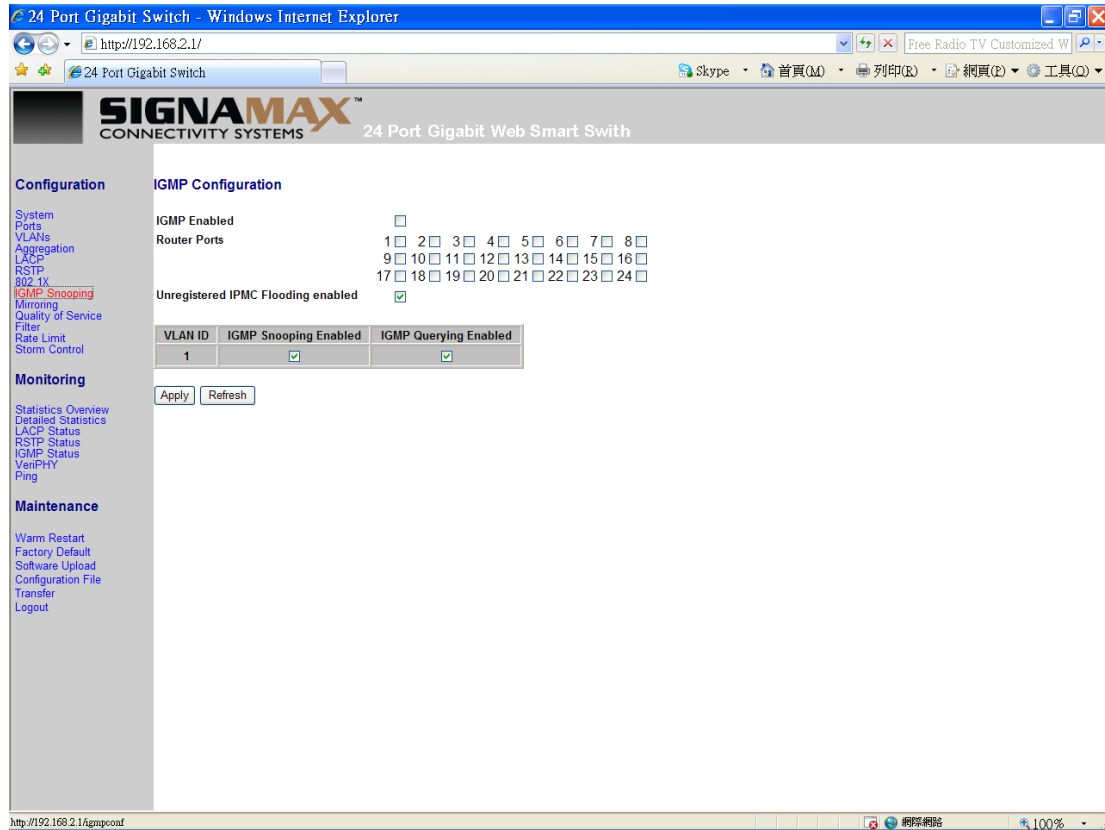
**Port Status Table:**

Port	Admin State	Port State	Re-authenticate	Force Reinitialize	Statistics
1	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
2	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
3	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
4	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
5	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
6	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
7	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
8	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
9	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
10	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
11	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
12	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
13	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
14	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
15	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
16	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
17	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
18	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>
19	Force Authorized	802.1X Disabled	<a href="#">Re-authenticate</a>	<a href="#">Force Reinitialize</a>	<a href="#">Statistics</a>

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

- Auto
- Force Authorized
- Force Unauthorized

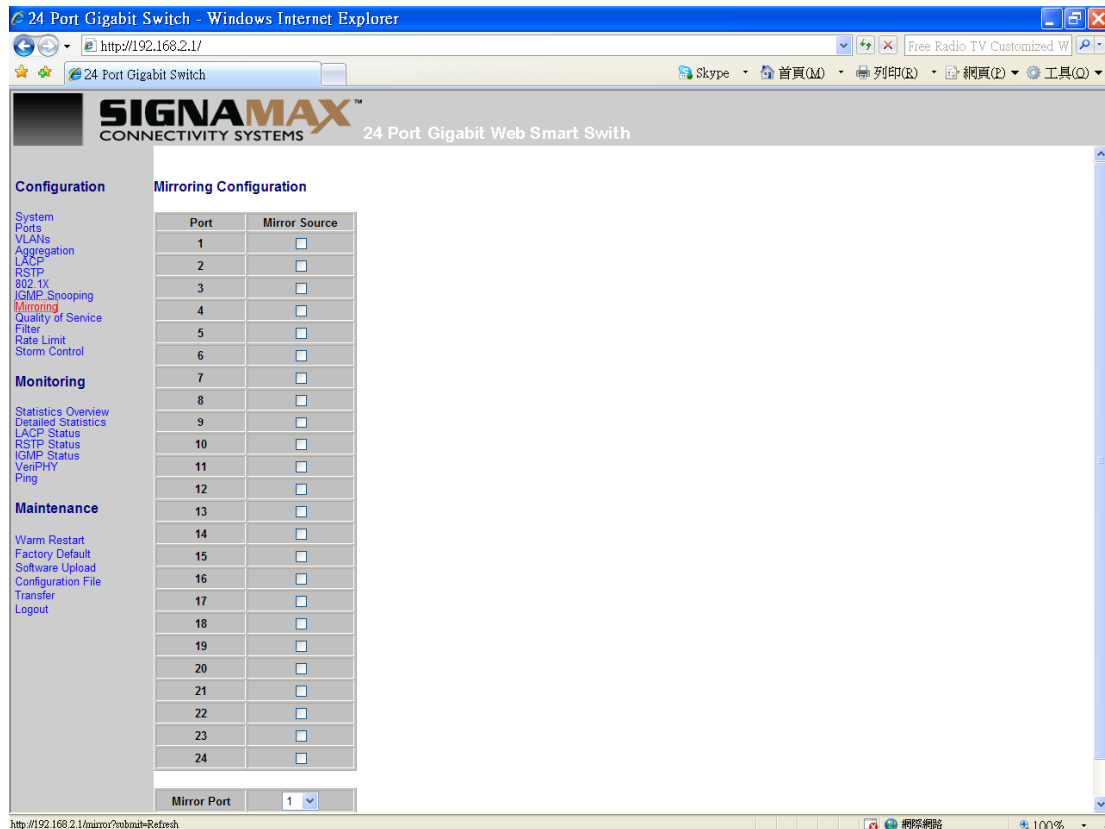
## Configuration: IGMP Configuration



You can enable or disable IGMP by clicking the checking box.  
Select the "Port no." which you want to configure the mode.



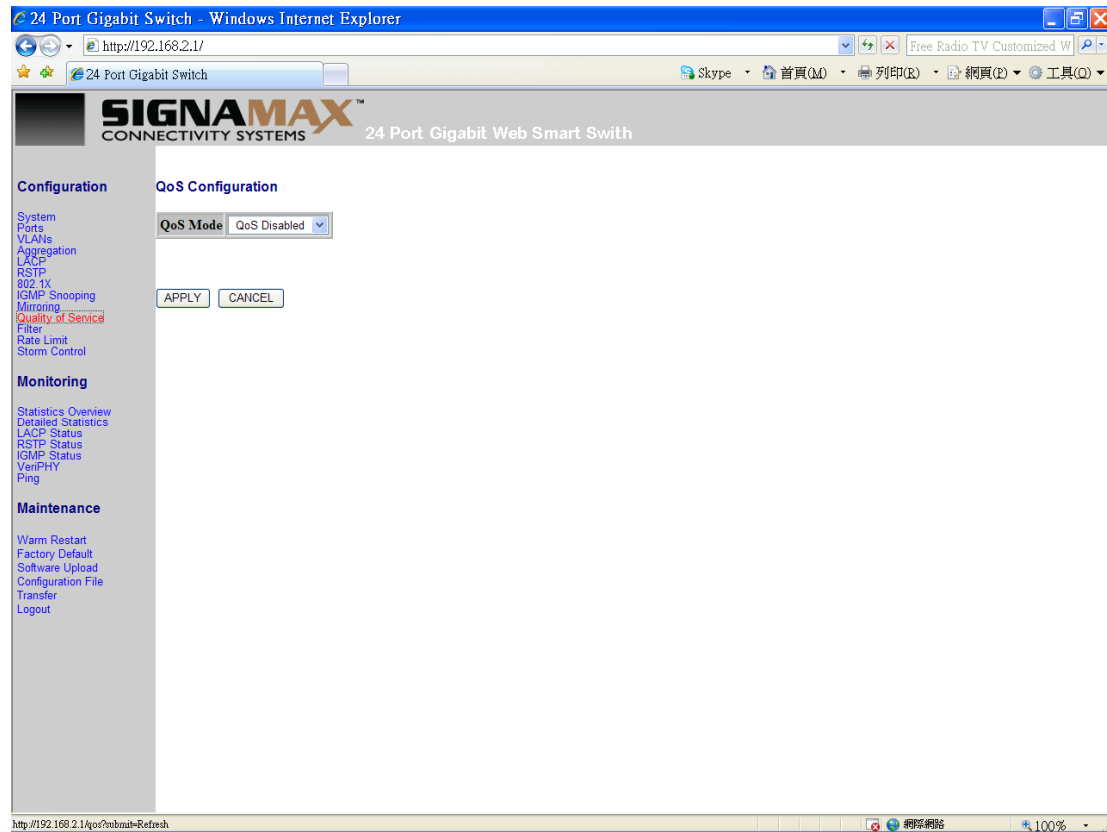
## Configuration: Port Mirror configuration



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

The screenshot shows the web interface of a SIGNAMAX 24 Port Gigabit Web Smart Switch. The browser window title is "24 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page title is "SIGNAMAX™ CONNECTIVITY SYSTEMS 24 Port Gigabit Web Smart Switch".

The left sidebar contains a navigation menu with the following categories:

- Configuration**
  - System
  - Ports
  - VLANs
  - Aggregation
  - LACP
  - RSTP
  - 802.1X
  - IGMP Snooping
  - Mirroring
  - Quality of Service
  - Files
  - 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
  - Transfer
  - Logout

The main content area is titled "Filter Configuration" and contains a table with the following structure:

Port	Mode	Source IP Filter		DHCP Server Allowed
		IP Address	IP Mask	
1	Disabled			<input checked="" type="checkbox"/>
2	Disabled			<input checked="" type="checkbox"/>
3	Disabled			<input checked="" type="checkbox"/>
4	Disabled			<input checked="" type="checkbox"/>
5	Disabled			<input checked="" type="checkbox"/>
6	Disabled			<input checked="" type="checkbox"/>
7	Disabled			<input checked="" type="checkbox"/>
8	Disabled			<input checked="" type="checkbox"/>
9	Disabled			<input checked="" type="checkbox"/>
10	Disabled			<input checked="" type="checkbox"/>
11	Disabled			<input checked="" type="checkbox"/>
12	Disabled			<input checked="" type="checkbox"/>
13	Disabled			<input checked="" type="checkbox"/>
14	Disabled			<input checked="" type="checkbox"/>
15	Disabled			<input checked="" type="checkbox"/>
16	Disabled			<input checked="" type="checkbox"/>
17	Disabled			<input checked="" type="checkbox"/>
18	Disabled			<input checked="" type="checkbox"/>
19	Disabled			<input checked="" type="checkbox"/>
20	Disabled			<input checked="" type="checkbox"/>

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

## Configuration: Rate Limit Configuration

The screenshot shows the web interface for a 24 Port Gigabit Switch. The main content area is titled "Rate Limit Configuration" and contains a table with the following structure:

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
17	No Limit	No Limit
18	No Limit	No Limit
19	No Limit	No Limit
20	No Limit	No Limit
21	No Limit	No Limit
22	No Limit	No Limit
23	No Limit	No Limit
24	No Limit	No Limit

The left sidebar contains navigation menus for Configuration, Monitoring, and Maintenance. The Configuration menu includes System, Ports, VLANs, Aggregation, LACP, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit (highlighted), and Storm Control. The Monitoring menu includes Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status, VeriPHY, and Ping. The Maintenance menu includes Warm Restart, Factory Default, Software Upload, Configuration File Transfer, and Logout.

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

## Configuration: Storm Control configuration

The screenshot shows the web interface of a SIGNAMAX 24 Port Gigabit Switch. The browser window is titled "24 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page header includes the SIGNAMAX logo and "24 Port Gigabit Web Smart Switch".

The left sidebar contains a navigation menu with the following sections:

- 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
  - VeriPHY
  - Ping
- Maintenance**
  - Warm Restart
  - Factory Default
  - Software Upload
  - Configuration File Transfer
  - Logout

The main content area is titled "Storm Control Configuration". It features a table for "Storm Control" with the following settings:

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

Below the table are "Apply" and "Refresh" buttons. The browser's status bar at the bottom shows "http://192.168.2.1/abomact?submit=Refresh" and a zoom level of 100%.

You can set up storm control by configuring the modes.

## Monitoring: Statistics Overview for All Ports

The screenshot shows the web interface of a 24 Port Gigabit Switch. The page title is "24 Port Gigabit Web Smart Switch" and the main heading is "Statistics Overview for all ports". There are "Clear" and "Refresh" buttons above the table. The table displays statistics for each of the 24 ports, including Tx Bytes, Tx Frames, Rx Bytes, Rx Frames, Tx Errors, and Rx Errors. Port 2 shows non-zero values: 99842 Tx Bytes, 189 Tx Frames, 32985 Rx Bytes, and 219 Rx Frames. All other ports show zero values for all metrics.

Port	Tx Bytes	Tx Frames	Rx Bytes	Rx Frames	Tx Errors	Rx Errors
1	0	0	0	0	0	0
2	99842	189	32985	219	0	0
3	0	0	0	0	0	0
4	0	0	0	0	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
17	0	0	0	0	0	0
18	0	0	0	0	0	0
19	0	0	0	0	0	0
20	0	0	0	0	0	0
21	0	0	0	0	0	0
22	0	0	0	0	0	0
23	0	0	0	0	0	0
24	0	0	0	0	0	0

You can read statistics for all ports.

## Monitoring: Detailed Statistics

The screenshot shows the web interface for a 24 Port Gigabit Switch. The browser address bar indicates the URL is <http://192.168.2.1/>. The page title is "24 Port Gigabit Web Smart Switch" and the main heading is "Statistics for Port 1".

On the left side, there is a navigation menu with the following categories:

- 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
  - Logout

The main content area displays "Statistics for Port 1" with a "Clear" and "Refresh" button. Below this is a grid of buttons for each port (Port 1 to Port 24). The statistics table is divided into four main sections:

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
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	-
Rx 512-1023 Bytes	-	Tx 512-1023 Bytes	-
Rx 1024+ Bytes	-	Tx 1024+ Bytes	-
Receive Error Counters		Transmit Error Counters	
Rx CRC/Alignment	-	Tx Collisions	-
Rx Undersize	-	Tx Drops	-
Rx Oversize	-	Tx Overflow	-
Rx Fragments	-		-
Rx Jabber	-		-
Rx Drops	-		-

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

## Monitoring: LACP Status

The screenshot shows the web interface of a SIGNAMAX 24 Port Gigabit Web Smart Switch. The browser window title is "24 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page title is "SIGNAMAX 24 Port Gigabit Web Smart Switch".

The interface is divided into several sections:

- Configuration:** Includes links for System, Ports, VLANs, Aggregation, LACP, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit, and Storm Control.
- Monitoring:** Includes links for Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status, VeniPHY, and Ping.
- Maintenance:** Includes links for Warm Restart, Factory Default, Software Upload, Configuration File, Transfer, and Logout.

The main content area displays the "LACP Aggregation Overview" section, which includes a "Legend" table and a "LACP Port Status" table.

**LACP Aggregation Overview**

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

**Legend**

Down	Port link down
Blocked	Port Blocked by RSTP. Number is Partner port number if other switch has LACP enabled
Learning	Port Learning by RSTP
Forwarding	Port link up and forwarding frames
Forwarding	Port link up and forwarding by RSTP. Number is Partner port number if other switch has LACP enabled

**LACP Port Status**

Port	Protocol Active	Partner Port Number	Operational Port Key
1	no		
2	no		
3	no		
4	no		
5	no		
6	no		

You can read LACP status for LACP ports.



## Monitoring: RSTP Status

The screenshot shows the web interface of a SIGNAMAX 24 Port Gigabit Switch. The browser window title is "24 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page header includes the SIGNAMAX logo and "24 Port Gigabit Web Smart 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
- Logout

**RSTP VLAN Bridge Overview**

VLAN Id	Bridge Id	Hello Time	Max Age	Fwd Delay	Topology	Root Id
1	32769-00-03-ce-07-00-6d	2	20	15	Steady	This switch is Root!

**RSTP Port Status**

Port/Group	Vlan Id	Path Cost	Edge Port	P2p Port	Protocol	Port State
Port 1						Non-STP
Port 2						Non-STP
Port 3						Non-STP
Port 4						Non-STP
Port 5						Non-STP
Port 6						Non-STP
Port 7						Non-STP
Port 8						Non-STP
Port 9						Non-STP
Port 10						Non-STP
Port 11						Non-STP
Port 12						Non-STP
Port 13						Non-STP
Port 14						Non-STP
Port 15						Non-STP
Port 16						Non-STP
Port 17						Non-STP
Port 18						Non-STP
Port 19						Non-STP

The browser status bar at the bottom shows the URL "http://192.168.2.1/rstpstatus?submit=Refresh" and a zoom level of 100%.

You can read RSTP status for RSTP ports.

## Monitoring: IGMP Status

The screenshot shows the web interface of a SIGNAMAX 24 Port Gigabit Web Smart Switch. The browser window title is "24 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page header includes the SIGNAMAX logo and the text "24 Port Gigabit Web Smart Switch".

The interface is divided into three main sections: Configuration, Monitoring, and Maintenance. The "Monitoring" section is active, displaying the "IGMP Status" page. A table shows the IGMP status for VLAN 1, which is in an "Idle" state. The table includes columns for Querier, Queries transmitted, Queries received, v1 Reports, v2 Reports, v3 Reports, and v2 Leaves.

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

Below the table is a "Refresh" button. The left sidebar lists various configuration and monitoring options, including System, Ports, VLANs, Aggregation, LACP, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit, Storm Control, Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status (highlighted), VeniPHY, Ping, Warm Restart, Factory Default, Software Upload, Configuration File, Transfer, and Logout.

You can read IGMP status for IGMP ports.

## Monitoring: VeriPHY Cable Diagnostics

**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
- VeriPHY**
- Ping

**Maintenance**

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

**VeriPHY Cable Diagnostics**

Port:

Mode:

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

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 displays the web interface for a 24 Port Gigabit Switch. The 'Ping Parameters' section is active, showing the following configuration:

- Target IP address:
- Count: 1
- Time Out (in secs): 1

An 'Apply' button is located below the configuration fields.

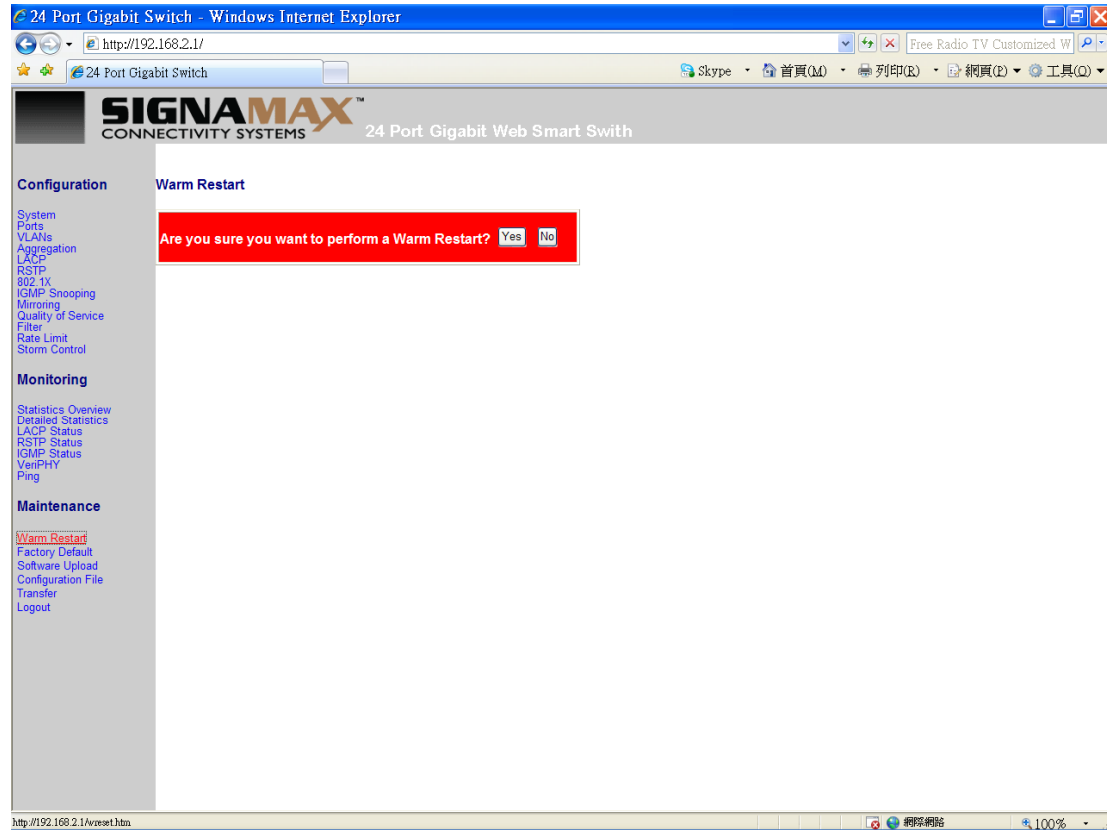
The 'Ping Results' table shows the following data:

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

A 'Refresh' button is located below the table.

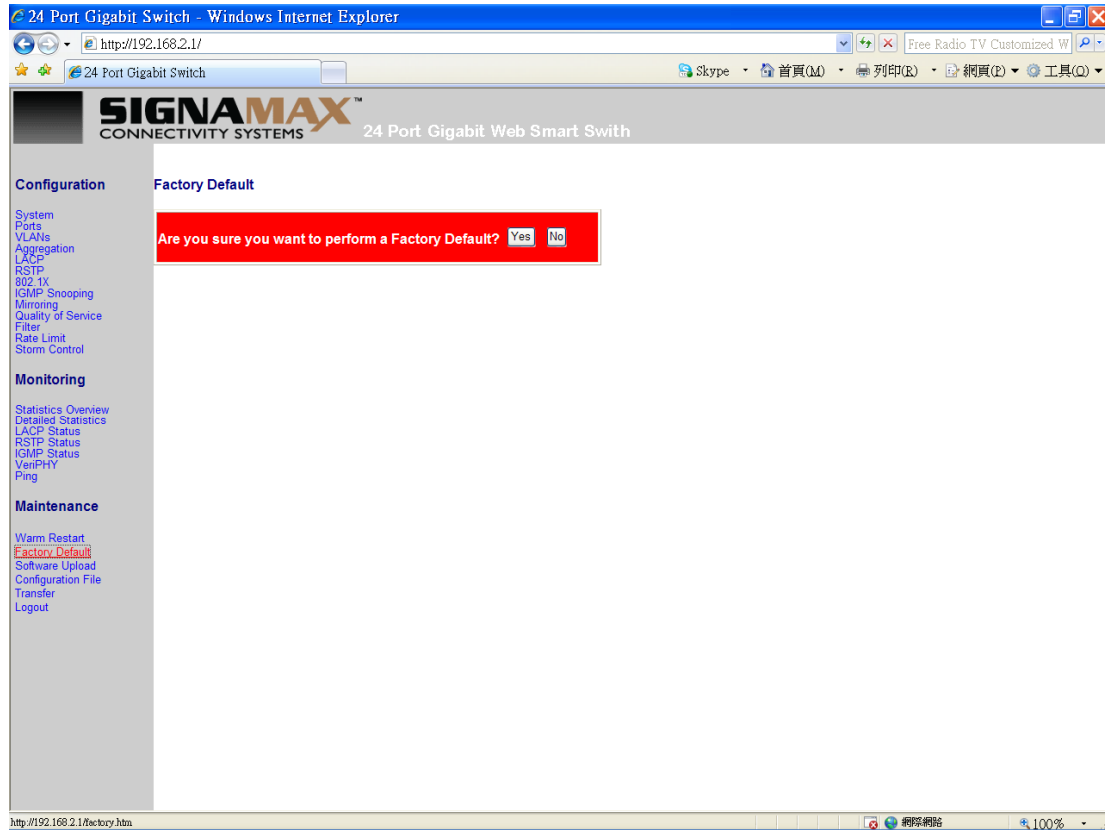
You can set target IP address by setting the mode which you want.

## Monitoring: Warm Restart



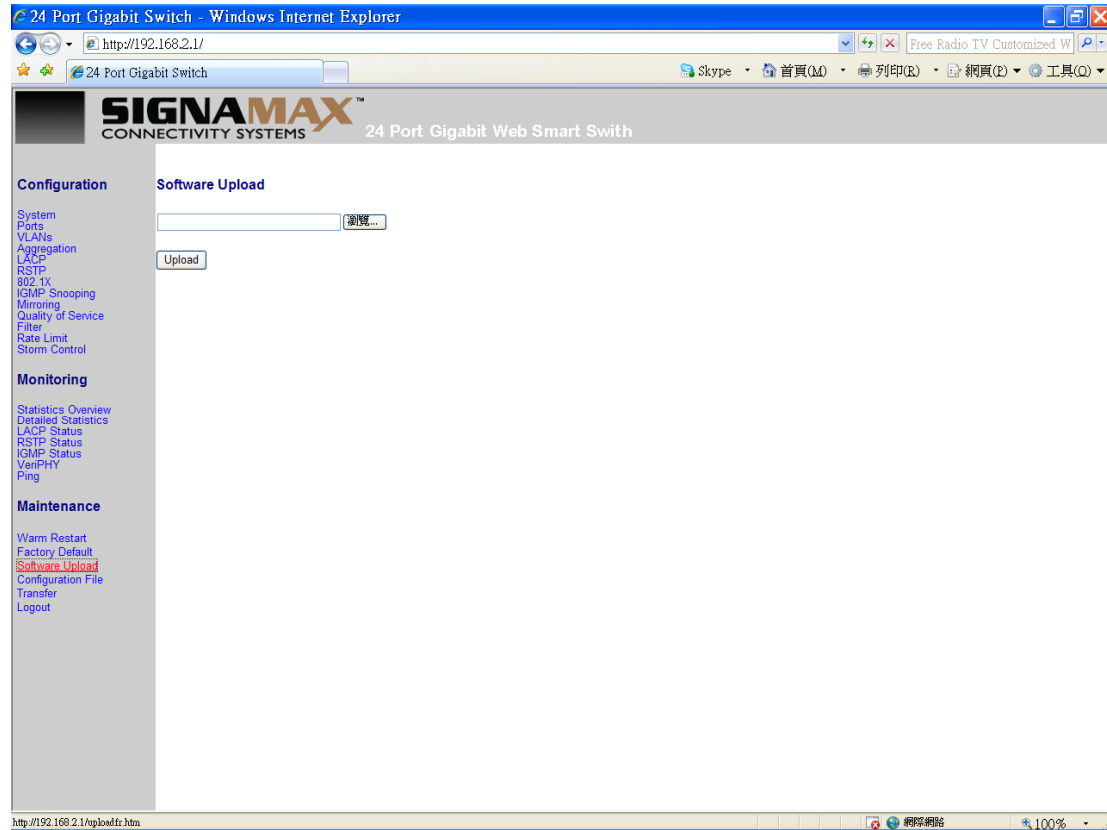
You can select yes/no to do the warm restart, and then the new settings will change according to your selection.

## Maintenance: Factory Default



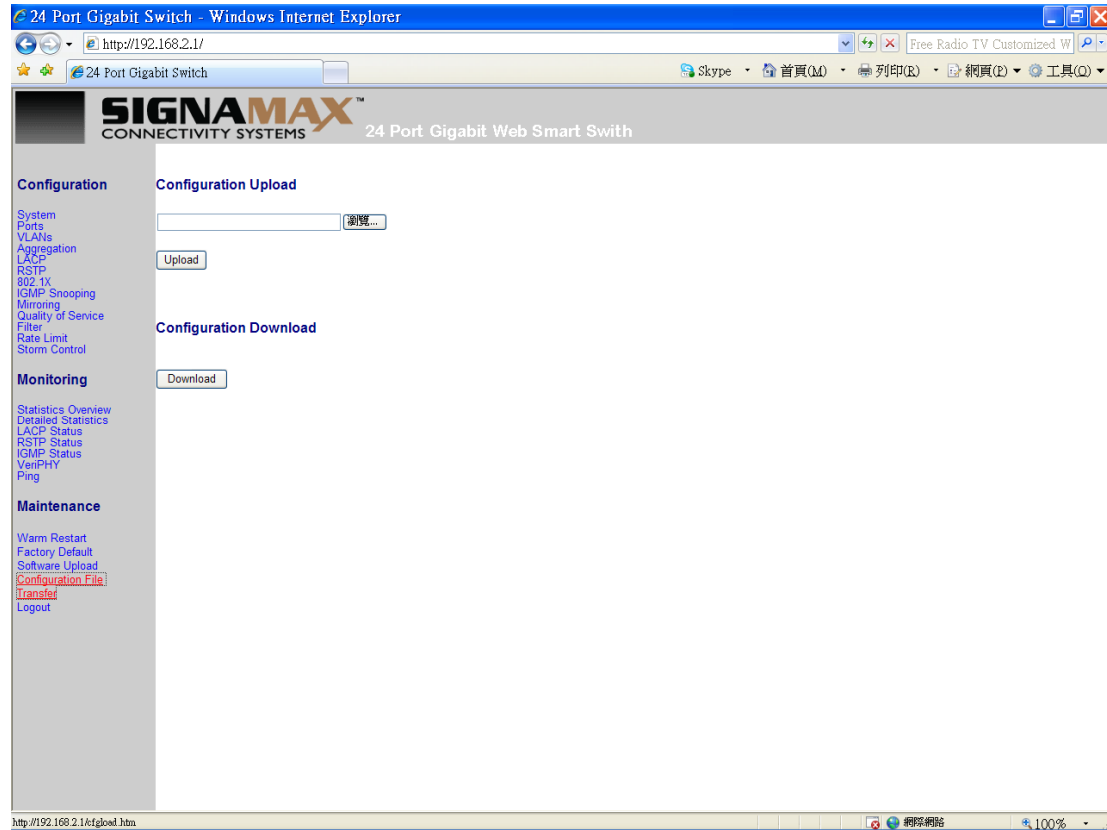
You can select yes/no to perform a Factory Default, and then the new settings will change according to your selection.

## 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:

Apply

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

IP: 192.168.2.1

Password: admin