



ALL4804W Rev.B

**Smart Managed 16 Port
Gigabit Switch**



User Manual

Default-IP

192.168.2.1

Username & Password:

admin



Safety Warnings

For your safety, be sure to read and follow all warning notices and instructions.

- Do not open the device. Opening or removing the device cover can expose you to dangerous high voltage points or other risks. Only qualified service personnel can service the device. Please contact your vendor for further information.
- Do not use your device during a thunderstorm. There may be a risk of electric shock brought about by lightning.
- Do not expose your device to dust or corrosive liquids.
- Do not use this product near water sources.
- Make sure to connect the cables to the correct ports.
- Do not obstruct the ventilation slots on the device.

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-based VLAN
- Supports priority queues for QoS

II. Configure

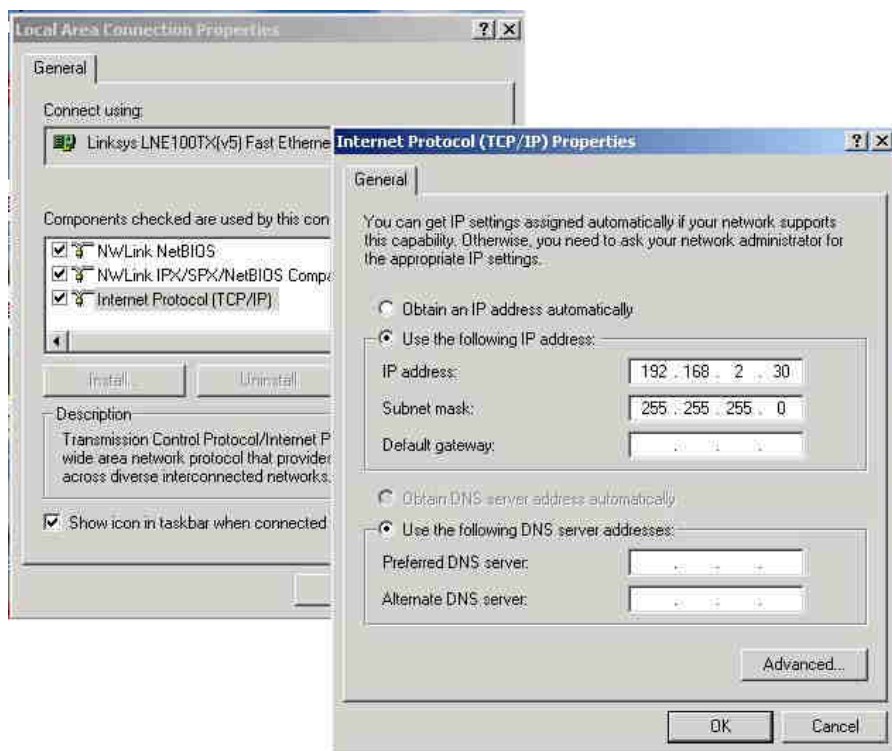
Please follow the steps to configure this Web Smart Switch.

STEP 1:

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

STEP 2:

Set your PCs IP to 192.168.2.xxx



STEP 3:

Open the browser (like IE...) and go to <http://192.168.2.1>

You will see the login screen below:

16 Port Gigabit Ethernet Switch

Configuration Please enter password to login

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

Password:

Apply

Please put the password into the field and press "Apply".

Password: admin

After authentication procedure, the switch can be used.

STEP 4:

At the homepage, select the configuration by clicking the icon as below:

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

Configuration: System Configuration

The screenshot shows a web browser window titled "16 Port Gigabit Switch - Windows Internet Explorer" with the address bar showing "http://192.168.2.1/". The page title is "16 Port Gigabit Ethernet Switch". The left sidebar contains a "Configuration" menu with links: System (highlighted), Ports, VLANs, Aggregation, LACP, RSTP, 802.1X, IGMP Snooping, Mirroring, Quality of Service, Filter, Rate Limit, and Storm Control. Below this is a "Monitoring" section with links: Statistics Overview, Detailed Statistics, LACP Status, RSTP Status, IGMP Status, VeriPHY, and Ping. At the bottom is a "Maintenance" section with links: Warm Restart, Factory Default, Software Upload, Configuration File Transfer, and Logout.

The main content area is titled "System Configuration" and contains two tables of settings.

MAC Address	00-03-ce-08-02-ee
S/W Version	Luton16 2.34d
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

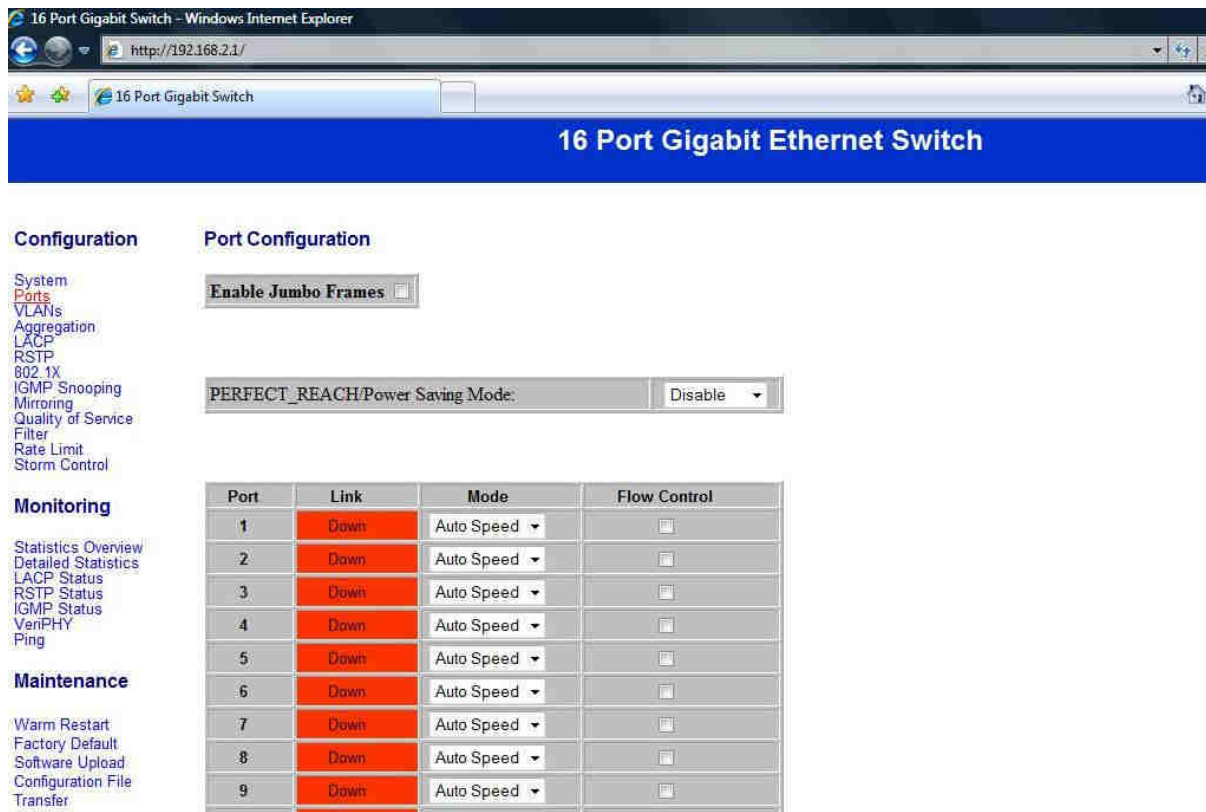
DHCP Enabled	<input type="checkbox"/>
Fallback IP Address	192.168.2.1
Fallback Subnet Mask	255.255.255.0
Fallback Gateway	192.168.2.254
Management VLAN	1
Name	
Password	

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. Click "Apply" to confirm the changes.

After reboot the new settings should be applied.

Configuration: Port Configuration

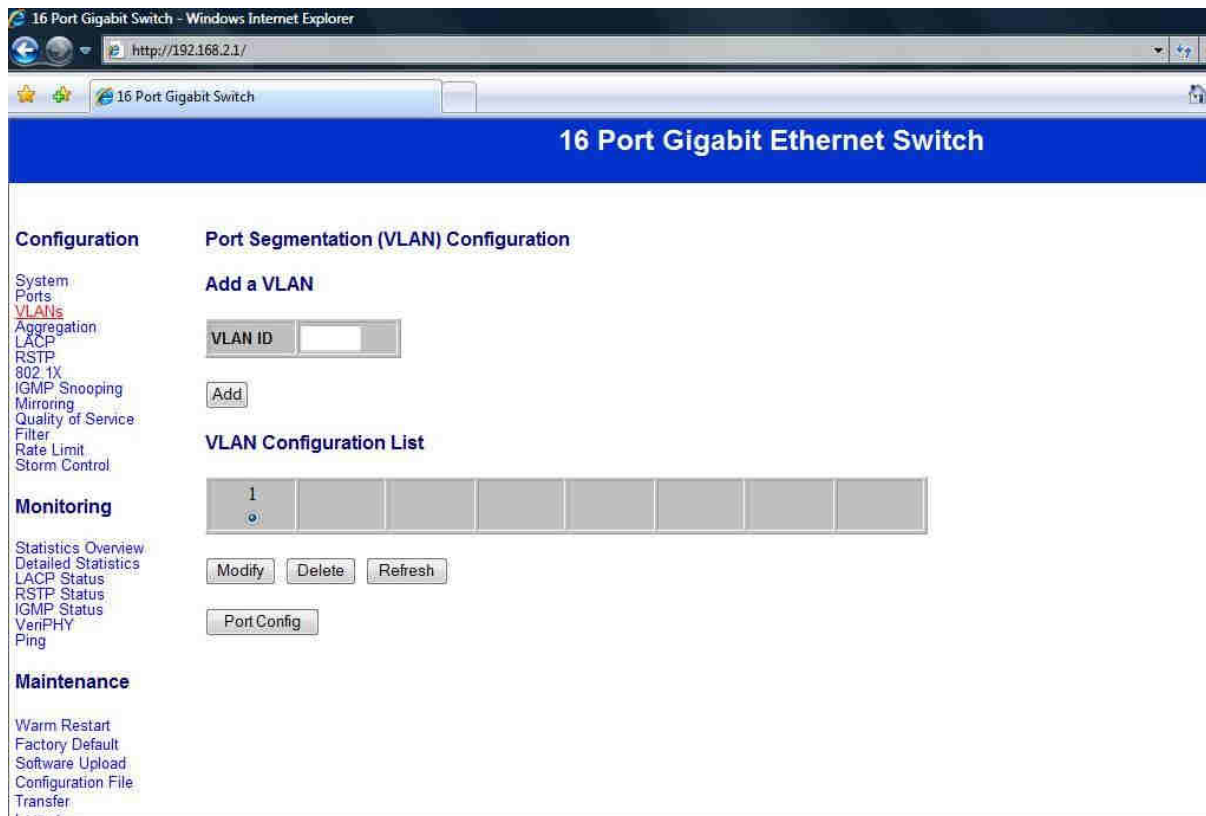


You can enable or disable Jumbo Frames by clicking the check box.

Select the "Port No." you want to configure. You can choose between the modes below:

- Auto Speed
- Enable/Disable the Port
- 10M/100M/1000M
- Full/Half-Duplex
- Enable/Disable Flow Control

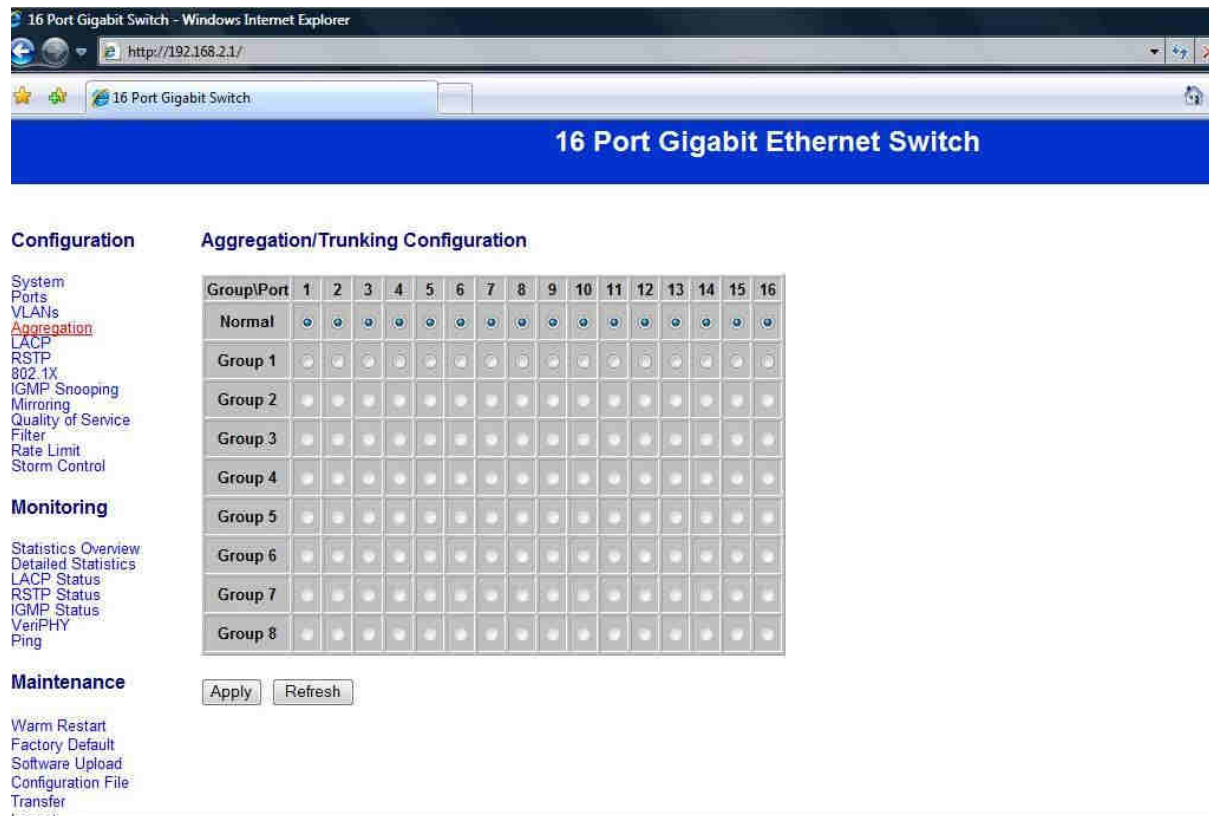
Configuration: VLAN Configuration



There are 16 VLAN groups.

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

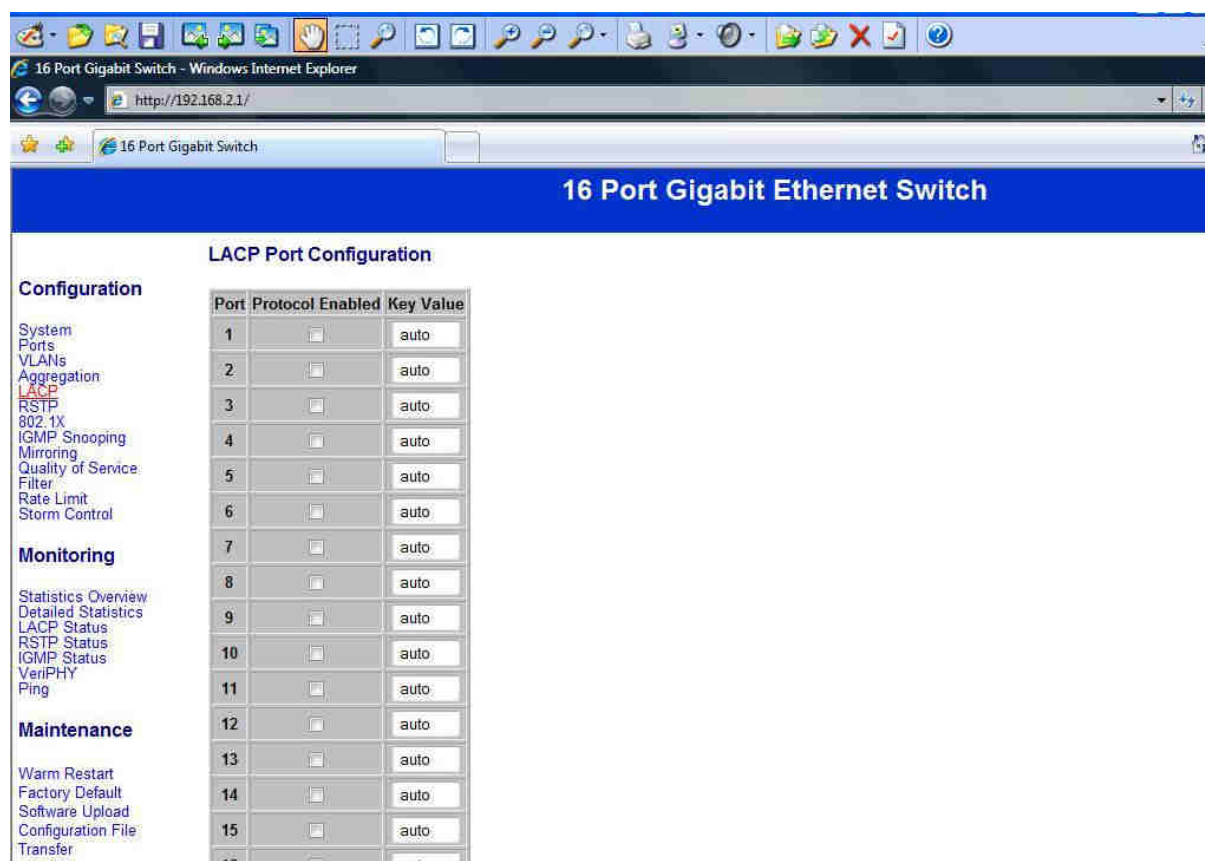
Configuration: Aggregation/Trunk Configuration



You can set up port trunk groups by clicking the port numbers you want to include into the same groups.

You can choose between eight groups. The maximum for one group are 16 ports.

Configuration: LACP Port Configuration



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

Configuration: RSTP Configuration

The screenshot shows the web interface of a 16 Port Gigabit Ethernet Switch. The browser window is titled "16 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page title is "16 Port Gigabit Ethernet Switch".

Configuration

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

RSTP System Configuration

System Priority	32768
Hello Time	2
Max Age	20
Forward Delay	15
Force version	Normal

Monitoring

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

Maintenance

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

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

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

Configuration: 802.1x Configuration

16 Port Gigabit Ethernet Switch

Configuration

802.1X Configuration

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

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

Monitoring

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

Maintenance

Warm Restart
Factory Default
Software Upload
Configuration File Transfer

Select the "Port No." where you want to configure the mode. You can choose between the ones below:

- Auto
- Force Authorized
- Force Unauthorized

Configure: IGMP Configuration

16 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 Configuration

IGMP Enabled ☐

Router Ports 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐
9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐

Unregistered IPMC Flooding enabled ☒

VLAN ID	IGMP Snooping Enabled	IGMP Querying Enabled
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Apply Refresh

Monitoring

Statistics Overview
Detailed Statistics
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VeriPHY
Ping

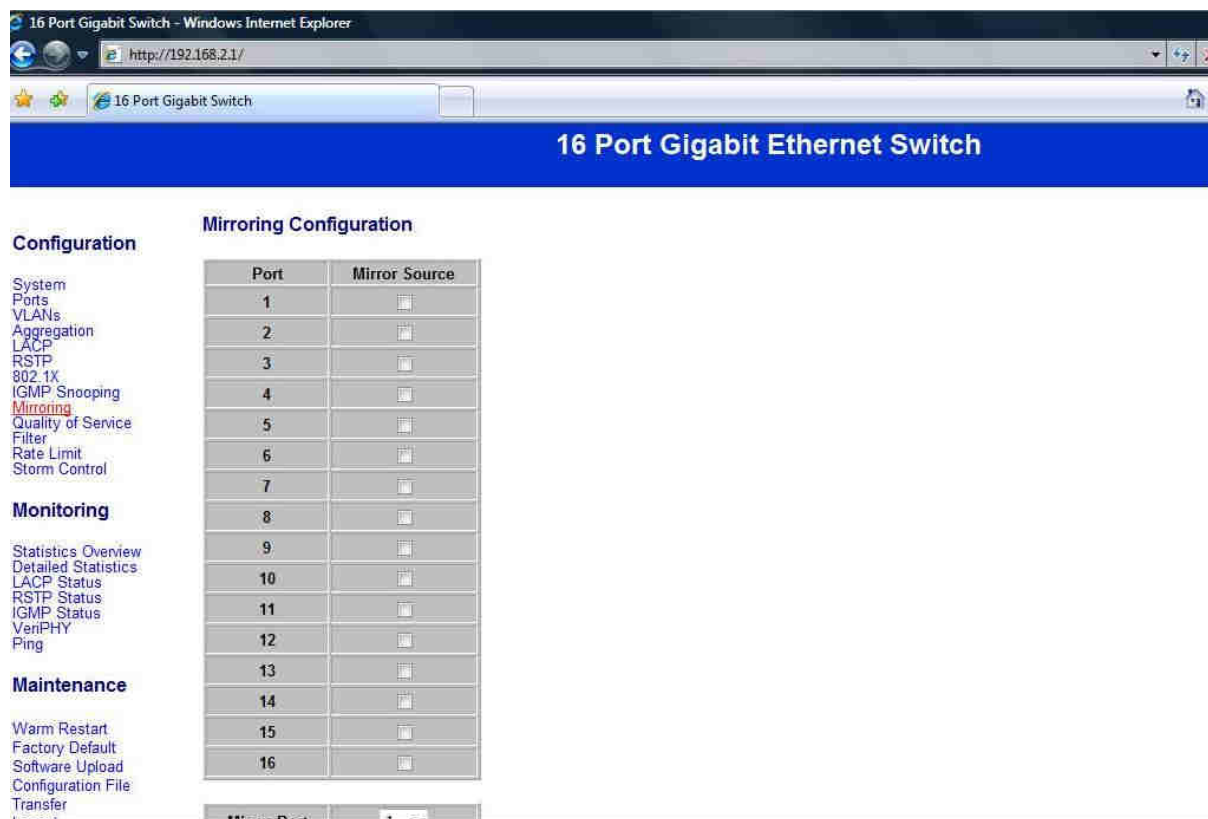
Maintenance

Warm Restart
Factory Default
Software Upload
Configuration File Transfer

You can enable/disable IGMP by clicking the check box.

Select the "Port No." where you want to enable the mode.

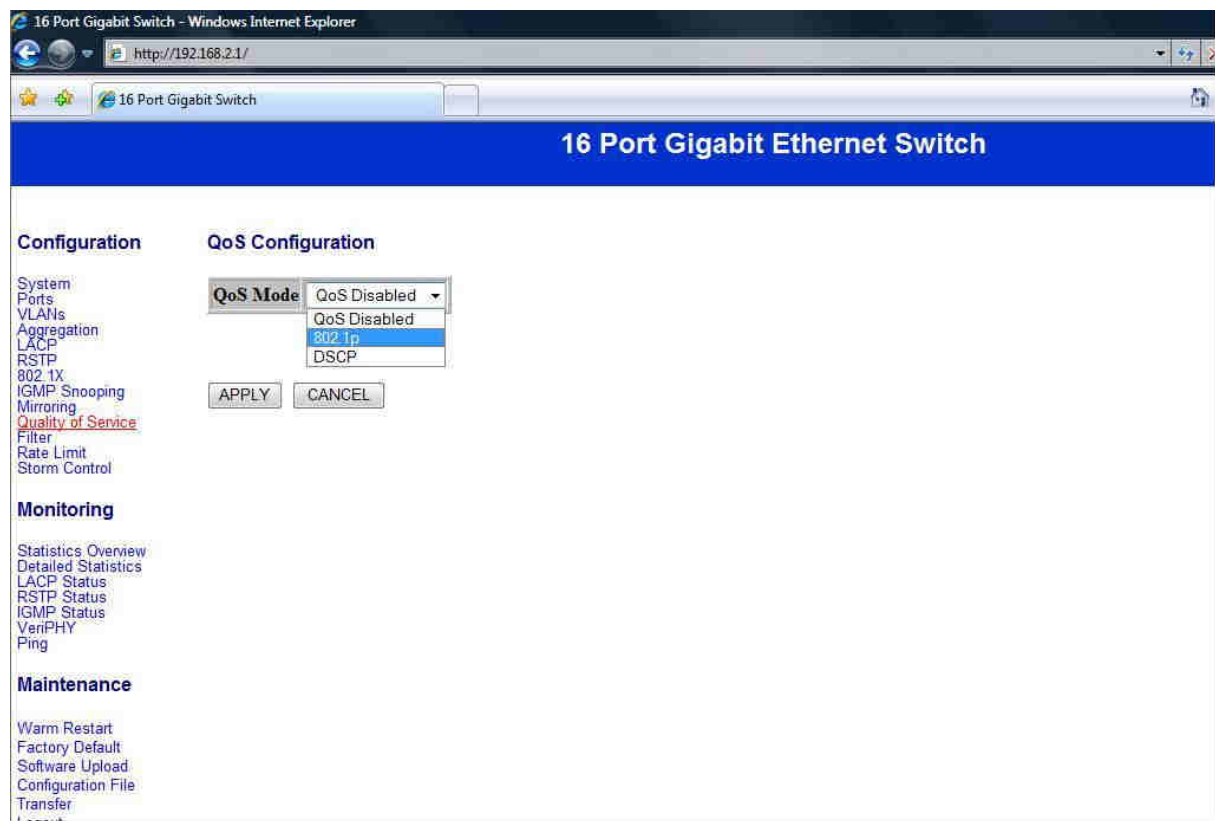
Configuration: Port Mirror Configuration



With "Port Mirroring" you can mirror the traffic from source port to destination port.

Select the destination port from port 1 to port 16 and then select the source port by clicking the checkbox of the respective port.

Configuration: QoS Configuration



You can enable/disable QoS by clicking the checkbox. If you enable QoS, you can select the class of the service for each port.

Configuration: Filter Configuration

The screenshot shows the web interface of a 16 Port Gigabit Ethernet Switch. The browser address bar shows <http://192.168.2.1/>. The page title is "16 Port Gigabit Ethernet Switch". The left sidebar contains the following navigation links:

- 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

The main content area is titled "Filter Configuration" and contains a table for configuring source IP filtering on ports 1 through 13.

Port	Mode	Source IP Filter		DHCP Server Allowed
		IP Address	IP Mask	
1	Disabled			<input checked="" type="checkbox"/>
2	Static			<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"/>

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

Configuration: Rate Limit Configuration

The screenshot shows the web interface of a 16 Port Gigabit Ethernet Switch. The browser address bar shows <http://192.168.2.1/>. The page title is "16 Port Gigabit Ethernet Switch". The left sidebar contains the following navigation links:

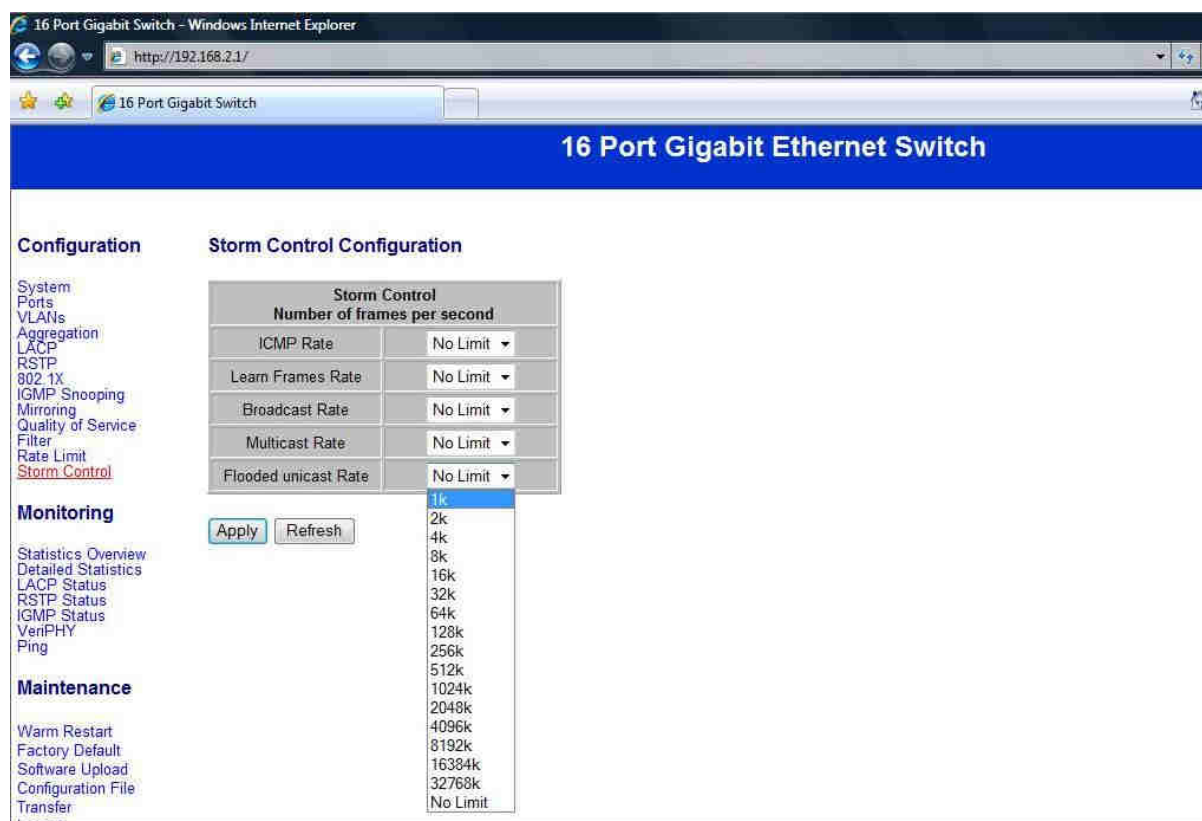
- Configuration**
 - System
 - Ports
 - VLANs
 - Aggregation
 - LACP
 - RSTP
 - 802.1X
 - IGMP Snooping
 - Mirroring
 - Quality of Service
 - Filter
 - Rate Limit**
 - Storm Control
- Monitoring**
 - Statistics Overview
 - Detailed Statistics
 - LACP Status
 - RSTP Status
 - IGMP Status
 - VeriPHY
 - Ping
- Maintenance**
 - Warm Restart
 - Factory Default
 - Software Upload
 - Configuration File Transfer

The main content area is titled "Rate Limit Configuration" and contains a table with 16 rows, one for each port. The table has three columns: "Port", "Policer", and "Shaper". All ports are currently configured with "No Limit" for both the Policer and the Shaper.

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." where you want to configure the mode of the speed.

Configuration: Storm Control Configuration



You can set up storm control by configuring the modes.

Monitoring: Statistics Overview

16 Port Gigabit Ethernet Switch

Statistics Overview for all ports

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

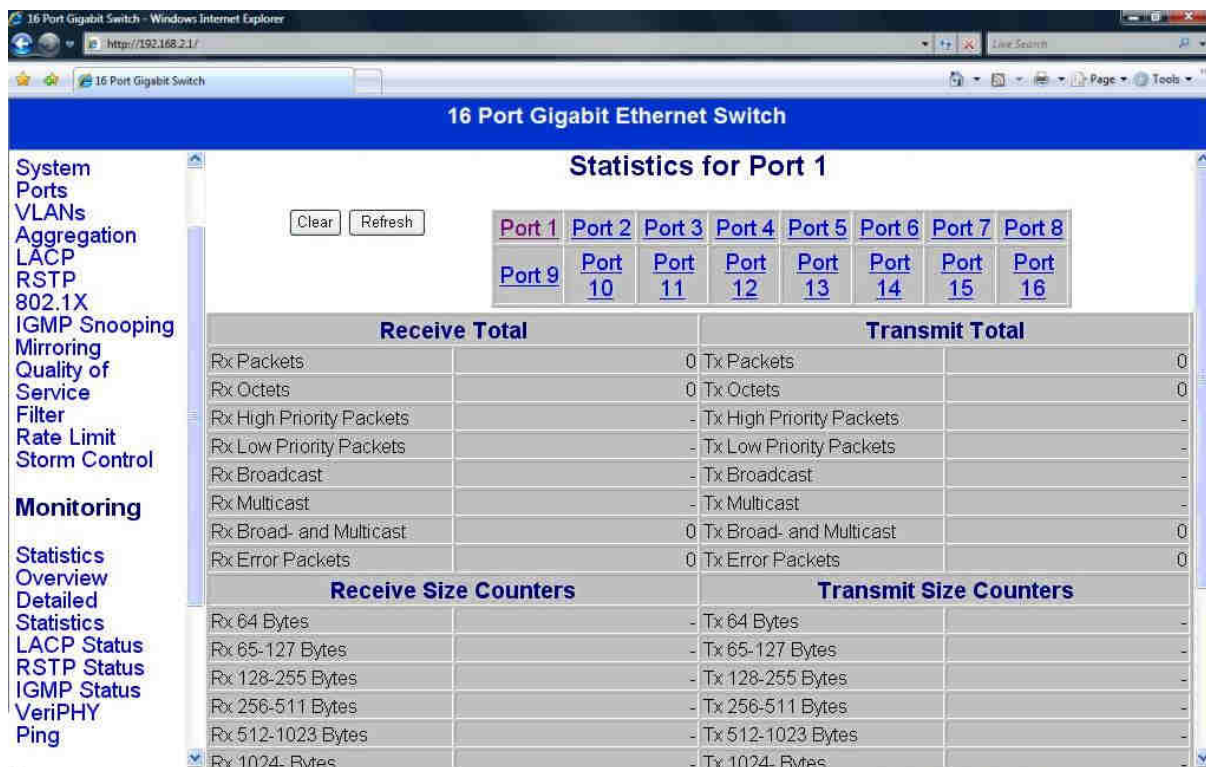
Maintenance

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

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	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	56013	161	57421	416	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0

You can see all statistics for all ports.

Monitoring: Detailed Statistics



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

Monitoring: LACP Status

The screenshot shows the web interface of a 16 Port Gigabit Ethernet Switch. The browser window is titled "16 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page title is "16 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
- VeriPHY
- Ping

Maintenance

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

LACP Aggregation Overview

Group/Port	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Normal																

Legend

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

LACP Port Status

Refresh

You can see the LACP status for the LACP ports.

Monitoring: RSTP Status

The screenshot shows the web interface of a 16 Port Gigabit Ethernet Switch. The browser window is titled "16 Port Gigabit Switch - Windows Internet Explorer" and the address bar shows "http://192.168.2.1/". The page title is "16 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
- VeriPHY
- 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-07-06-f1	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

You can see the RSTP status for the RSTP ports.

Monitoring: IGMP Status

16 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**
- Vrrp
- Ping

Maintenance

- Warm Restart
- Factory Default

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

You can see the IGMP status for the IGMP ports.

Monitoring: VeriPHY Cable Diagnostic

The screenshot shows the web interface of a 16 Port Gigabit Ethernet Switch. The browser address bar shows <http://192.168.2.1/>. The page title is "16 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
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

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

Monitoring: Ping Parameters

16 Port Gigabit Switch - Windows Internet Explorer
http://192.168.2.1/

16 Port Gigabit Ethernet Switch

Configuration

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

Ping Parameters

Target IP address:

Count:

Time Out (in secs):

Apply

Monitoring

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

Maintenance

- Warm Restart
- Factory Default
- Software Upload

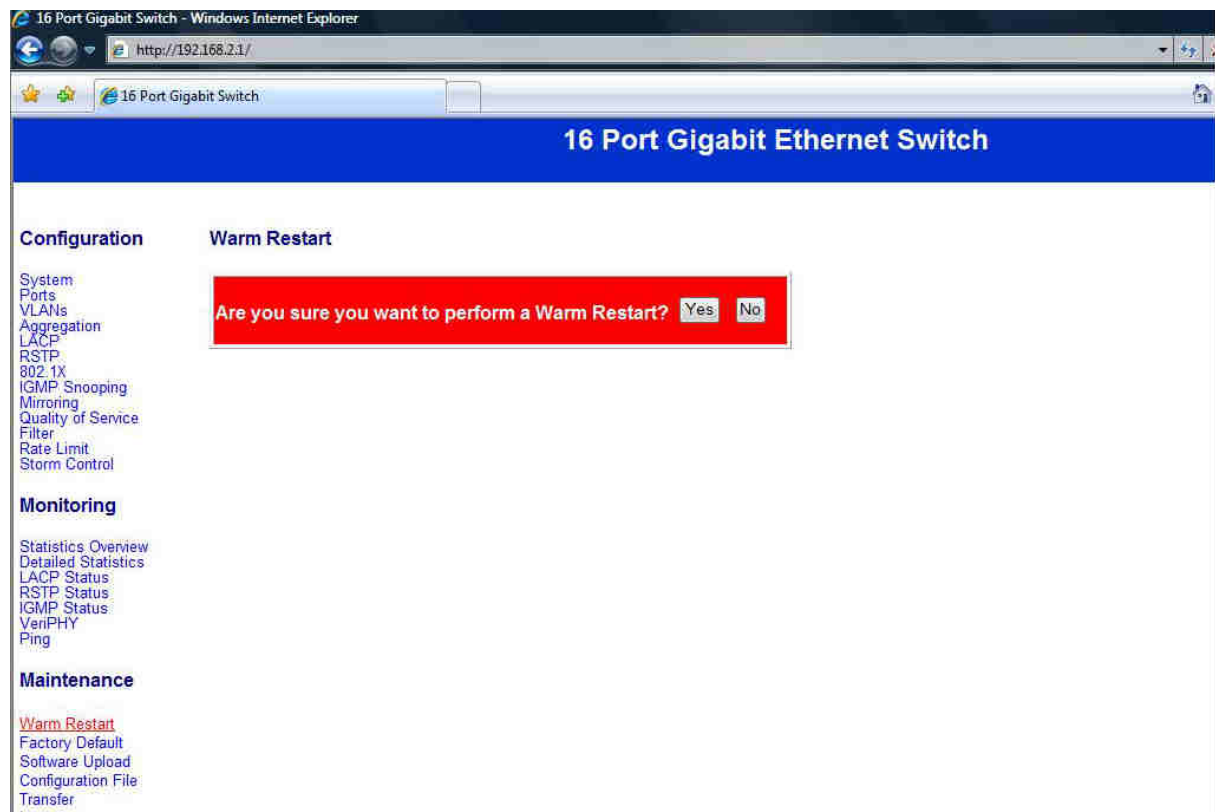
Ping Results

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

Refresh

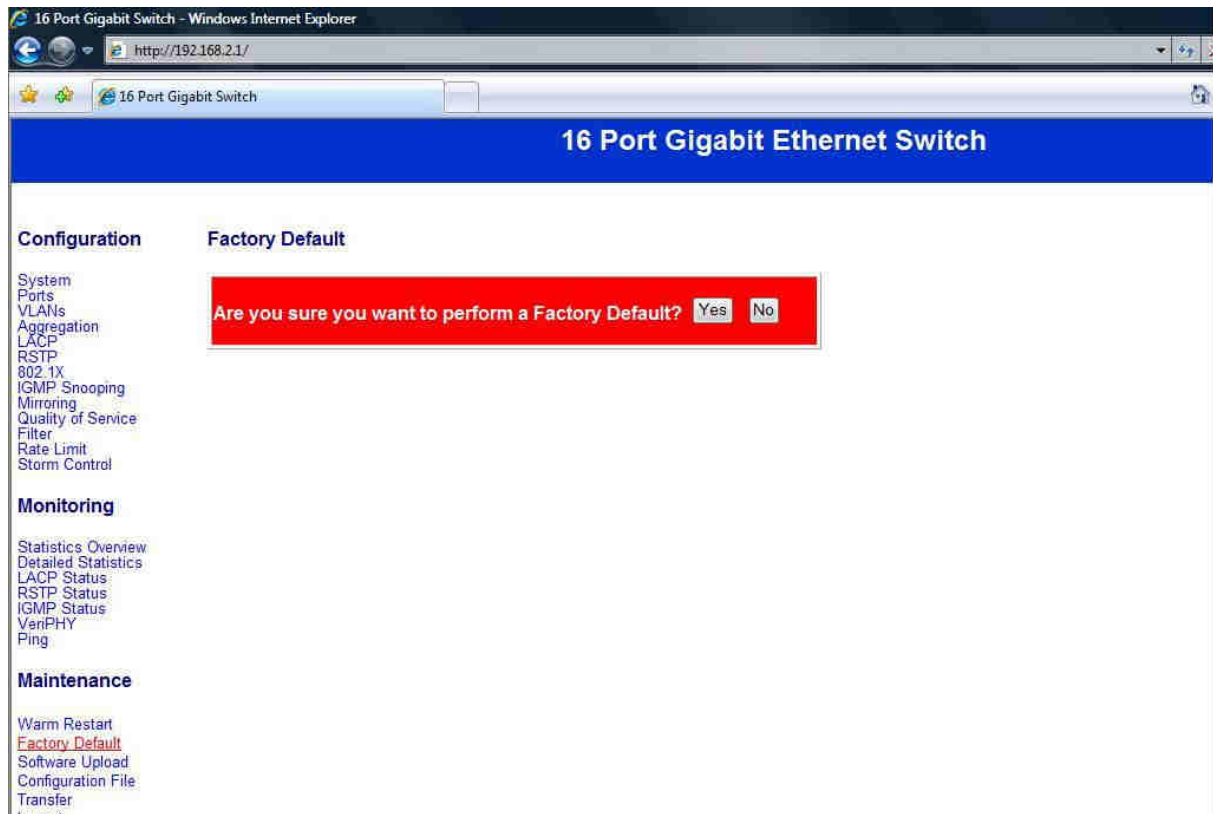
You can set a target IP address you want to ping.

Monitoring: Warm Restart



Select Yes/No to do the warm restart. All new settings will be assumed after the reboot.

Maintenance: Factory Default



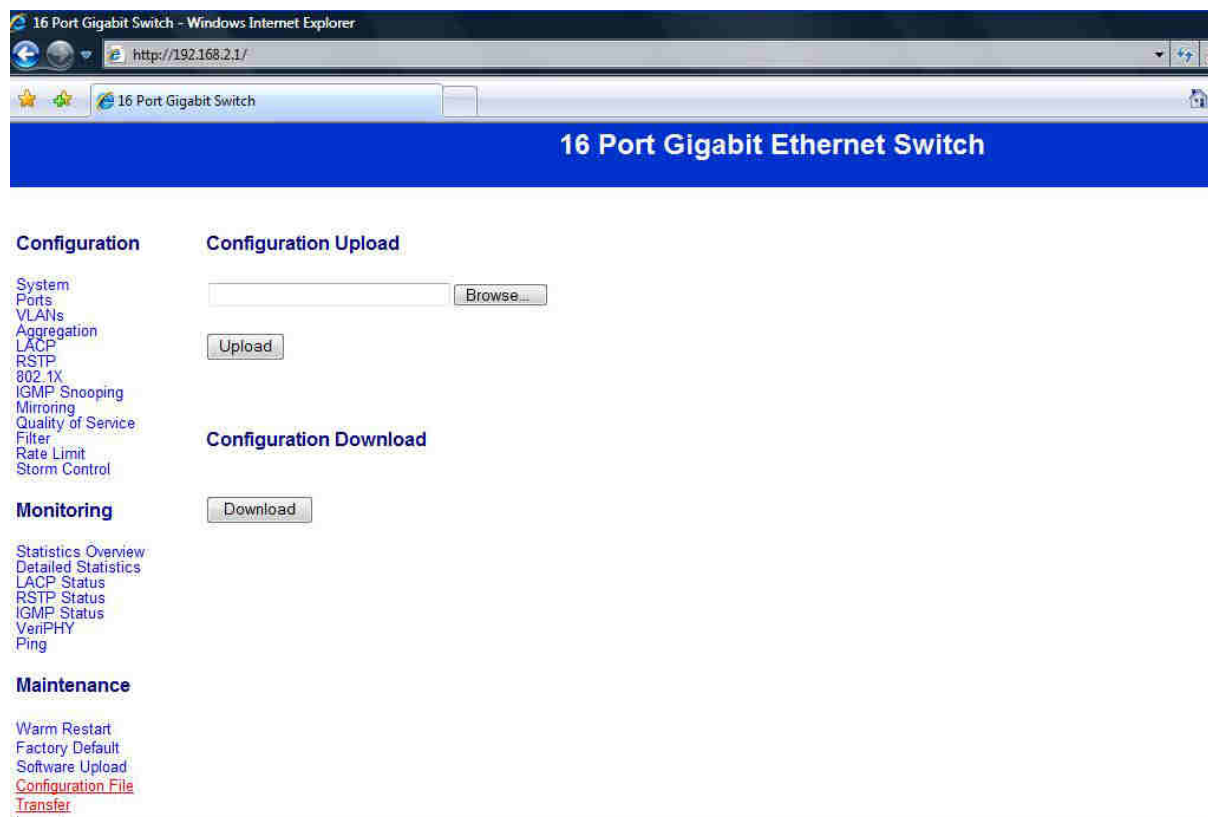
Select Yes/No to perform a Factory Default. All settings, except IP configuration and password, will be set to factory default.

Maintenance: Software Upload



Select the firmware by clicking at "Browse". When you press "Upload" the new firmware will be updated.

Maintenance: Configuration Upload



You can upload/download your configurations.

Logout

You lose the access to the WEBUI.

When you forgot your IP or Password, please use the reset button to set the switch to factory default!

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

Step 1:

Turn on the switch.

Step 2:

Press and hold the reset button continuously for 25 seconds and release the reset button.

Step 3:

The switch will reboot for 20 seconds and the configuration will fall back to the default settings. (Default: 192.168.2.1 – admin/admin)

CE-Declaration of Conformity



For the following equipment:

Smart Managed 16 Port Gigabit Switch

ALL4804W Rev.B



The safety advice in the documentation accompanying the products shall be obeyed. The conformity to the above directive is indicated by the CE sign on the device.

The ALLNET ALL4804W Rev.B conforms to the Council Directives of 1995/5/EC.

This equipment meets the following conformance standards:

EN55022:2010: Class A

IEC61000-3-2: 2005 + A1: 2008 + A2: 2009

IEC61000-3-3: 2008

EN55024: 2010

IEC61000-4-2: 2008

IEC61000-4-3: 2006 + A1: 2007 + A2: 2010

IEC61000-4-4: 2004 + A1: 2010

IEC61000-4-5: 2005

IEC61000-4-6: 2008

IEC61000-4-8: 2009

IEC61000-4-11: 2004

This equipment is intended to be operated in all countries.

This declaration is made by
ALLNET GmbH Computersysteme
Maistraße 2
82110 Germering
Germany

Germering, 31.03.2015



Wolfgang Marcus Bauer
CEO