

FIBERROAD

Web-based
Network Management
User Manual



About This Manual

Introduction

This document chapter includes an introduction to the Fiberroad Industrial Ethernet products family,

Conventions

This document contains notices, figures, screen captures, and certain text conventions.

Figures and Screen Captures

This document provides figures and screen captures as example. These examples contain sample data. This data may vary from the actual data on an installed system.

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CONTENTS

Revision History	5
Chapter 1 System Configurations	6
1. About Web-GUI Management.....	6
1.1 Preparing for Web Management	6
1.2 System	7
1.2.1 System Information	7
1.2.2 System-IP Setting	7
1.2.3 System – User Account	8
1.2.4 System-Port Setting	9
Chapter 2 Network Configurations	10
2. Configuration	10
2.1 Configuration-VLAN	10
2.1.1 Configuyration-VLAN-Static VLAN.....	10
2.1.2 Configuration-VLAN-VLAN Setting	11
2.2 Configuration-QoS	11
2.2.1 Configutation-QoS-Priority Selection	11
2.2.2 Configutation-QoS-DSCP Remapping.....	12
2.2.3 Configuration-QoS-Priority To Queue	12
2.2.4 Configuration-QoS-Queue Weight.....	13
2.3 IGMP.....	13
2.3.1 IGMP-IGMP	13
2.4 STP.....	14
2.4.1 STP-Global Setting.....	14
2.4.2 STP-Port Setting.....	15
2.4.3 STP-Detail Information	16
2.4.4 STP-Port Brief	16
2.4.5 STP-Port Information	17
2.5 PoE Setting	17
2.6 Trunk Group Setting	18
2.7 SNMP Setting.....	19
2.8 Port Mirroring	19
2.9 Port Isolation	20

2.10 Bandwidth Control	20
2.11 Jumbo Frame.....	21
2.12 Mac Constraint.....	21
2.13 Greent Ethernet Setting	22
2.14 Security.....	23
2.14.1 Security MAC Address – Mac Search	23
2.14.2 Security MAC Address – Static Mac	23
2.15 Storm Control.....	24
2.16 Monitoring.....	25
2.16.1 Monitoring-Port Statistics.....	25
2.16.2 Monitoring-Cable Diagnostic	25
2.17 Tools	26
2.17.1 Tools-Firmware Upgrage	26
2.17.2 Tools-Configuraion Backup.....	26
2.17.3 Tools-Reset	27
2.17.4 Tools-Save.....	27
2.17.5 Tools-Reboot	28

Revision History

Version	Date	Author	Reasons of Change	Section(s) Affected
1.0	2022/3/16		Initial Release	All

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Chapter 1 System Configurations

This chapter describes the port configuration in detail, including but not limit to the following:

- ❖ System Information
 - ❖ IP Setting
 - ❖ User Account
 - ❖ Port Setting
-

1. About Web-GUI Management

There is an embedded HTML web site residing in flash memory on CPU board of the switch, which offers advanced management features and allows users to manage the switch from anywhere on the network through a standard browser such as Mozilla Firefox or Chrome. (Note: Window IE is not supported) The Web-Based Management supports Mozilla Firefox 54.X or later, or Chrome 59.X or later. The Web browser is a program that can read hypertext.

1.1 Preparing for Web Management

Before using the web management, install the industrial switch on the network and make sure that any one of the PCs on the network can connect with the industrial switch through the web browser.

The industrial switch default value of IP, subnet mask, username and password are listed as below:

- ❖ IP Address: 192.168.1.6
- ❖ HTTP service: Enable
- ❖ User Name: admin
- ❖ Password: admin



1.2 System

1.2.1 System Information

Overview the device information and port status.

System Information

Device Type	switch
MAC Address	00:18:93:12:F0:8C
IP Address	192.168.1.92
Netmask	255.255.255.0
Gateway	192.168.1.1
Running Time	00:51:06
Firmware Version	V2.4
Firmware Date	Jul 29 2022
Dip 1 & 2 & 3	OFF & OFF & OFF

1.2.2 System-IP Setting

The IP address setting surface is used to configure IP.

IP Address Setting

DHCP Setting	Disable
IP Address	192.168.1.92
Subnet Mask	255.255.255.0
Gateway	192.168.1.1

Apply

Item	Description	Notes
DHCP	Enable/Disable	When enabled, enable the DHC client to obtain the dynamic IP address. When disabled, use the configured static IP address.

IP Address	Default:192.168.1.6	Static IP Address
Subnet Mask	Default:255.255.255.0	Static IP subnet mask
Gateway	Default:192.168.1.1	Gateway Address

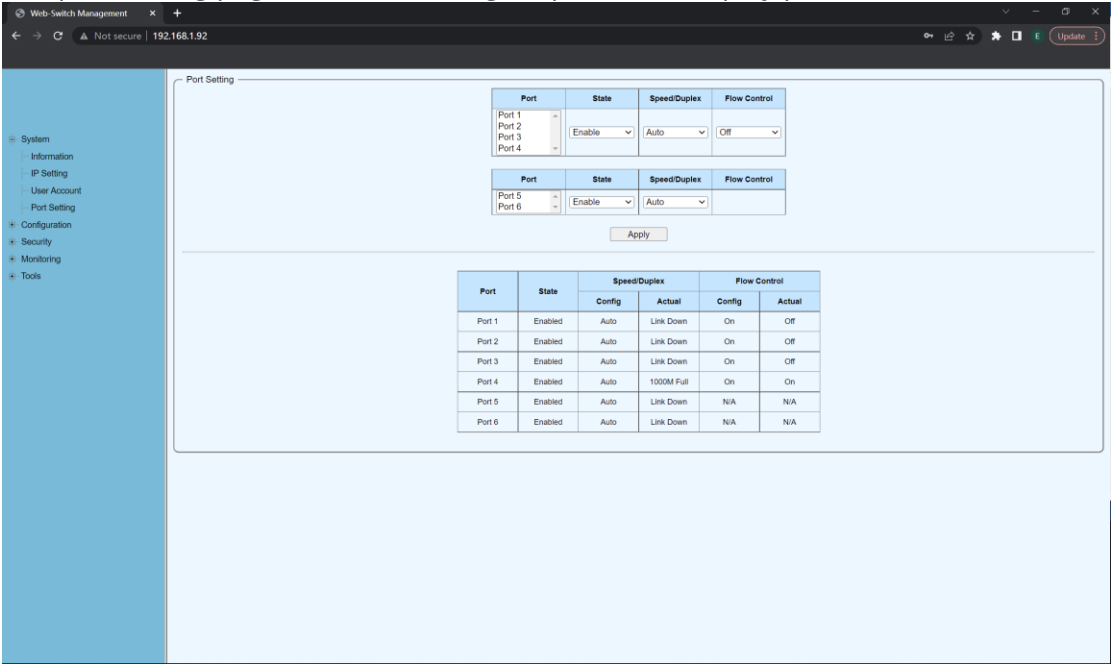
1.2.3 System – User Account

The user account setting page is used to configure user accounts.

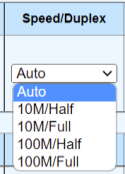
Item	Description	Notes
New user name	Add a new user name	
New Password	Add a new user name	
Retype Password	Confirm the password of the new user	

1.2.4 System-Port Setting

The port setting page is used to configure ports and display port status.



Item	Description	Notes
Port 1-4	Lan (RJ45) Port	
Port 5-6	Optical Fiber Port	
State	Port state in enable/disable	
Speed/Duplex	Port Speed or Mode	
Flow Control	On/Off	



Chapter 2 Network Configurations

This chapter describes the port configuration in detail, including but not limit to the following:

- ❖ VLAN
- ❖ QoS
- ❖ EEE
- ❖ Security

2. Configuration

2.1 Configuration-VLAN

2.1.1 Configuyratation-VLAN-Static VLAN

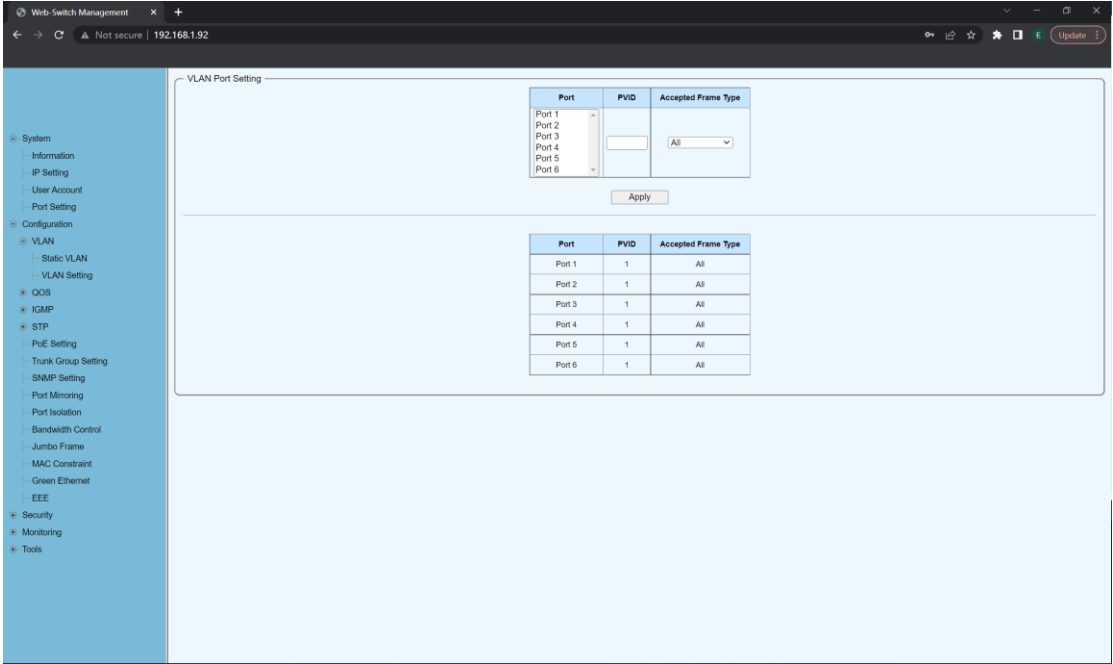
The static VLAN table setting page is used to add or delete VLANs in the form of tag or untag, and display the port information of VLANs.

The screenshot shows the 'Static VLAN Table Setting' page in a web management interface. The page has a left sidebar with a navigation menu and a main content area. The navigation menu includes 'System', 'Information', 'IP Setting', 'User Account', 'Port Setting', 'Configuration', 'VLAN', 'QoS', 'IGMP', 'STP', 'PoE Setting', 'Trunk Group Setting', 'SNMP Setting', 'Port Mirroring', 'Port Isolation', 'Bandwidth Control', 'Jumbo Frame', 'MAC Constraint', 'Green Ethernet', 'EEE', 'Security', 'Monitoring', and 'Tools'. The 'VLAN' section is expanded, showing 'Static VLAN' and 'VLAN Setting'. The 'Static VLAN' section is active, displaying a form for adding or modifying VLANs. The form includes fields for 'VLAN ID' (1-4094) and 'VLAN Name'. Below these are checkboxes for 'Port', 'Untagged', 'Tagged', and 'Not Member'. The 'Port' checkbox is selected, and the 'Port' field is set to 'Select All'. The 'Untagged' checkbox is also selected, and the 'Tagged' checkbox is selected. The 'Not Member' checkbox is selected. The 'Port' field is set to 'Select All'. The 'Untagged' checkbox is selected, and the 'Tagged' checkbox is selected. The 'Not Member' checkbox is selected. Below the form is a table with the following columns: 'VLAN ID', 'VLAN Name', 'Member Ports', 'Tagged Ports', 'Untagged Ports', and 'Delete'. The table contains one row with the following data: '1', 'VLAN 1', '1-5,6', '-', '1-5,6', and a 'Delete' button. Below the table are 'Delete' and 'Select All' buttons.

VLAN ID	VLAN Name	Member Ports	Tagged Ports	Untagged Ports	Delete
1	VLAN 1	1-5,6	-	1-5,6	<input type="checkbox"/>

2.1.2 Configuration-VLAN-VLAN Setting

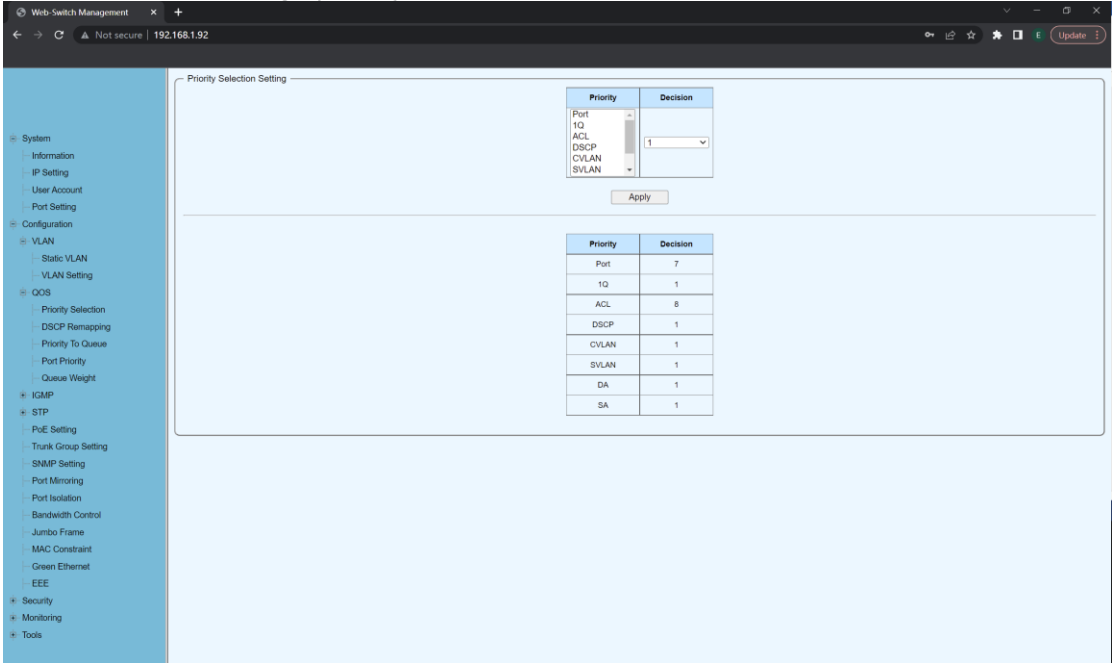
The VLAN side setting page is used to configure the PVID of the port and the type of received frame.



2.2 Configuration-QoS

2.2.1 Configuration-QoS-Priority Selection

The priority selection setting page is used to configure the priority source weight. When the received packet is paired with multiple sources, the source with the highest weight will be selected to assign priority.



2.2.2 Configuration-QoS-DSCP Remapping

The DSCP remapping settings page is used to configure the internal priority mapping based on DSCP priority.

The screenshot shows the 'DSCP Remapping Setting' page. On the left is a navigation menu with categories: System, Configuration, QoS, IGMP, STP, Security, Monitoring, and Tools. Under 'Configuration', 'QoS' is expanded, showing 'Priority Selection', 'DSCP Remapping' (selected), 'Priority To Queue', 'Port Priority', and 'Queue Weight'. The main area has a title 'DSCP Remapping Setting'. At the top right, there is a small table with 'DSCP Value' (0-5) and 'Priority' (0). Below it is an 'Apply' button. The main part of the page contains a larger table with 'DSCP Value' (0-19) and 'Priority' (0).

DSCP Value	Priority
0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0

2.2.3 Configuration-QoS-Priority To Queue

The priority queue ID setting page is used to configure the internal priority to queue mapping.

The screenshot shows the 'Priority To Queue ID Setting' page. The navigation menu is the same as in the previous screenshot, with 'Priority To Queue' selected under 'QoS'. The main area has a title 'Priority To Queue ID Setting'. At the top right, there is a small table with 'Priority' (0-5) and 'Queue ID' (1). Below it is an 'Apply' button. The main part of the page contains a larger table with 'Priority' (0-7) and 'Queue ID' (1-4).

Priority	Queue ID
0	1
1	1
2	2
3	2
4	3
5	3
6	4
7	4

2.2.4 Configuration-QoS-Queue Weight

The queue weight page is used to configure the weight of queue priority algorithm.

The screenshot shows the 'Queue Weight Setting' page in the Web Switch Management interface. The left sidebar contains a navigation menu with categories: System, Configuration, QoS, IGMP, STP, Security, Monitoring, and Tools. The 'Queue Weight' option is selected under the QoS category. The main content area has a title 'Queue Weight Setting' and two tables. The first table is for configuring the priority queue and weight, with a dropdown for 'Priority Queue' (values: 1(lowest), 2, 3, 4(highest)) and a dropdown for 'Weight' (value: Strict priority). Below this table is an 'Apply' button. The second table is a list of priority queues, with columns 'Priority Queue' and 'Weight'. The table contains four rows, all with 'Strict priority' in the 'Weight' column.

Priority Queue	Weight
1(lowest)	Strict priority
2	Strict priority
3	Strict priority
4(highest)	Strict priority

Priority Queue	Weight
1	Strict priority
2	Strict priority
3	Strict priority
4	Strict priority

2.3 IGMP

2.3.1 IGMP-IGMP

IGMP page, used to configure IGMP enabled or disabled and display IGMP list items
After checking enable, the group broadcast text learned through IGMP protocol is allowed to pass.

The display information includes the IP address, port and VLAN ID learned through IGMP.

The screenshot shows the 'IGMP Enable Setting' page in the Web Switch Management interface. The left sidebar is the same as in the previous screenshot, with 'IGMP' selected under the QoS category. The main content area has a title 'IGMP Enable Setting' and a checkbox labeled 'Enable' which is checked. Below this is an 'Apply' button. The second part of the page is a table for configuring IGMP settings. The table has columns 'Router Port', '1', '2', '3', '4', '5', and 'Port 6'. The rows are 'Static' and 'Dynamic'. The 'Static' row has checkboxes for ports 1 through 5, and the 'Dynamic' row has checkboxes for ports 1 through 5. Below the table is an 'Add / Modify' button. The third part of the page is a section titled 'Dump IGMP Entry' with a table that has columns 'IP Address', 'Ports', and 'Vid'.

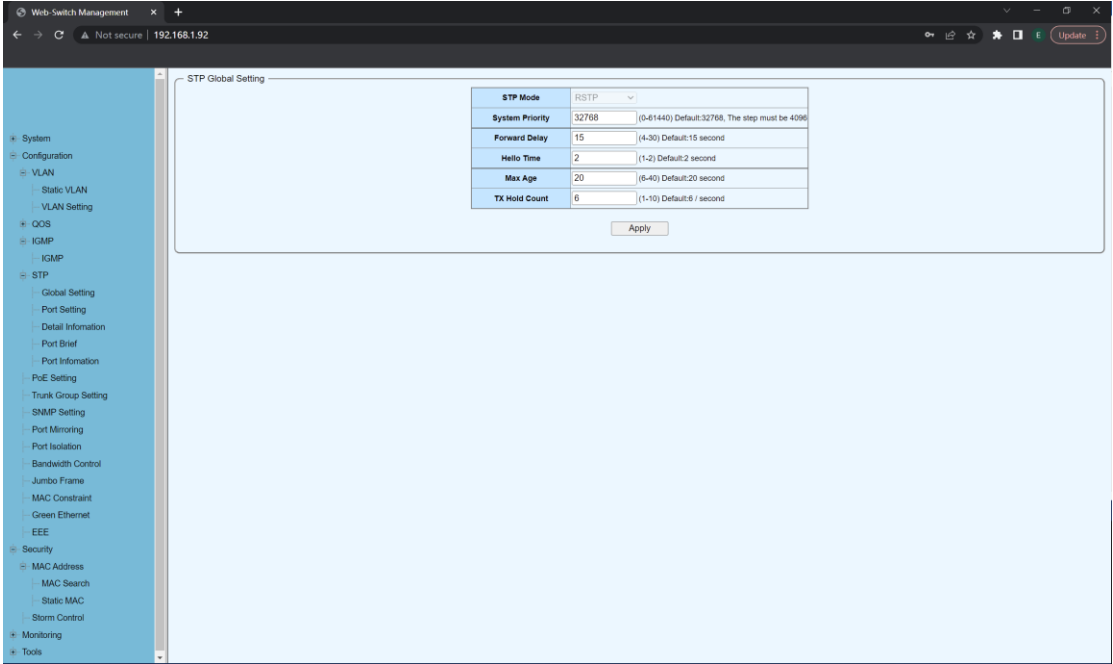
Router Port	1	2	3	4	5	Port 6
Static	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

IP Address	Ports	Vid
------------	-------	-----

2.4 STP

2.4.1 STP-Global Setting

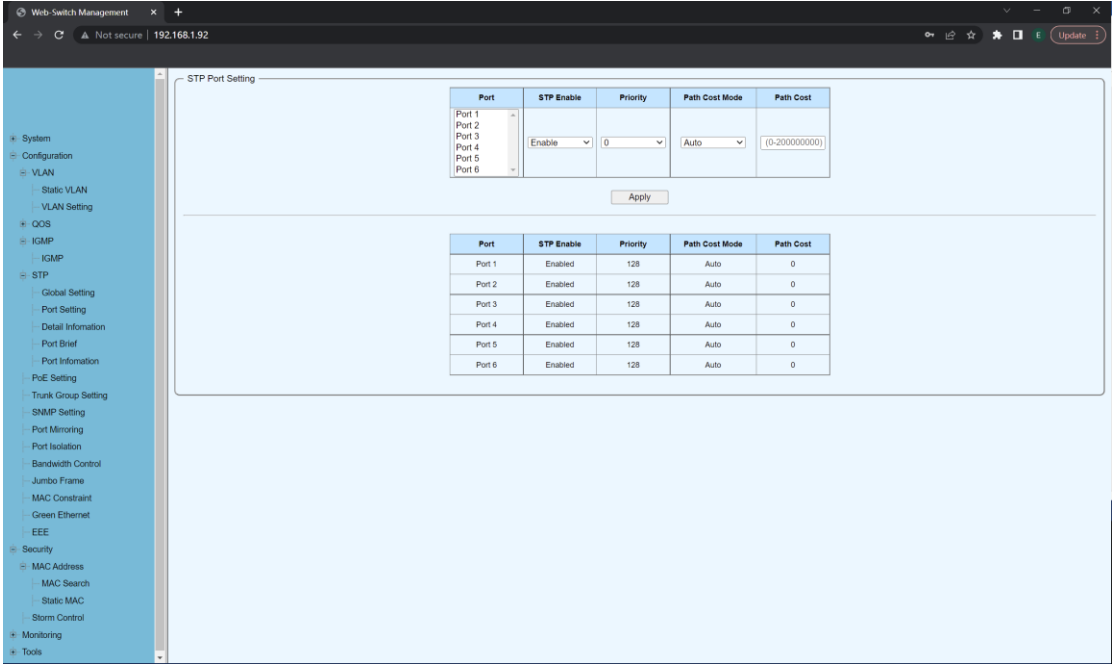
Global parameters, STP for global settings.



Item	Description	Notes
STP Mode	RSTP Only	
System Priority	0-61140, The Step must be 4096 Default:32768	
Forward Delay	4-30 Default:15 second	
Hello Time	1-2 Default:2second	
Max Age	6-40 Default: 20 second	
Tx Hold Count	1-10 Default: 6 second	

2.4.2 STP-Port Setting

STP port summary page is used to display port STP summary information, including port, STP enable, role and status.



Item	Description	Notes
Port	Port 1-6	
STP Enable	Enable/Disable	
Priority	0-240	
Path Cost Mode	Auto/Admin	
Path Cost	0-2000000000	

2.4.3 STP-Detail Information

STP port information page is used to display the detailed information of STP port.

The screenshot shows the 'STP Information' page in the Web Switch Management interface. The left sidebar contains a navigation menu with categories: System, Configuration (VLAN, QoS, IGMP, STP, PoE Setting, Trunk Group Setting, SNMP Setting, Port Mirroring, Port Isolation, Bandwidth Control, Jumbo Frame, MAC Constraint, Green Ethernet, EEE), Security (MAC Address, MAC Search, Static MAC, Storm Control), Monitoring, and Tools. The main content area displays three tables:

Current Bridge	0018931208c/32768
Root Port	N/A
Designated Port	4
BackUp/Alter Port	
Disabled Port	1,2,3,5,6

Root Bridge	Root Path Cost	Designated Bridge	Designated Port	Received Port
0018931208c/32768	0	0018931208c/32768	N/A/G	N/A/G

Forward Delay	Hello Time	Max Age	Message Age
15	2	20	0

2.4.4 STP-Port Brief

The screenshot shows the 'STP Port Brief' page in the Web Switch Management interface. The left sidebar is identical to the previous screenshot. The main content area displays a table with the following data:

Port	STP Enable	Role	State
Port 1	Enabled	Disabled	Discarding
Port 2	Enabled	Disabled	Discarding
Port 3	Enabled	Disabled	Discarding
Port 4	Enabled	Designated	Forwarding
Port 5	Enabled	Disabled	Discarding
Port 6	Enabled	Disabled	Discarding

2.4.5 STP-Port Information

STP details page, used to display STP details

STP Port Information | Port Priority Vector | Port Times | Port Message Priority Vector

STP Port Information

Port	Priority	STP Enable	Point To Point	Path Cost	Role	Link Status	State	Send RSTP
Port 1	128	Enabled	No	200000000	Disabled	Link Down	Discarding	True
Port 2	128	Enabled	No	200000000	Disabled	Link Down	Discarding	True
Port 3	128	Enabled	No	200000000	Disabled	Link Down	Discarding	True
Port 4	128	Enabled	Yes	20000	Designated	Link Up	Forwarding	True
Port 5	128	Enabled	No	200000000	Disabled	Link Down	Discarding	True
Port 6	128	Enabled	No	200000000	Disabled	Link Down	Discarding	True

Port Priority Vector

Port	Root Bridge	Root Path Cost	Designated Bridge	Designated Port	Received Port
Port 1	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 2	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 3	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 4	0018931208c :32768	0	0018931208c :32768	Port 4/128	Port 4/128
Port 5	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 6	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0

Port Times

Port	Forward Delay	Hello Time	Max Age	Message Age
Port 1	0	0	0	0
Port 2	0	0	0	0
Port 3	0	0	0	0
Port 4	15	2	20	0
Port 5	0	0	0	0
Port 6	0	0	0	0

Port Message Priority Vector

Port	Root Bridge	Root Path Cost	Designated Bridge	Designated Port	Received Port
Port 1	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 2	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 3	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 4	0018931208c :32768	20000	244c07331764 :32768	Port 1/128	Port 4/128
Port 5	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0
Port 6	000000000000 :0	0	000000000000 :0	N/A :0	N/A :0

2.5 PoE Setting

PoE settings page, which is used to configure and show PoE State.

PoE Port Setting

Port: Port 1, Port 2, Port 3, Port 4

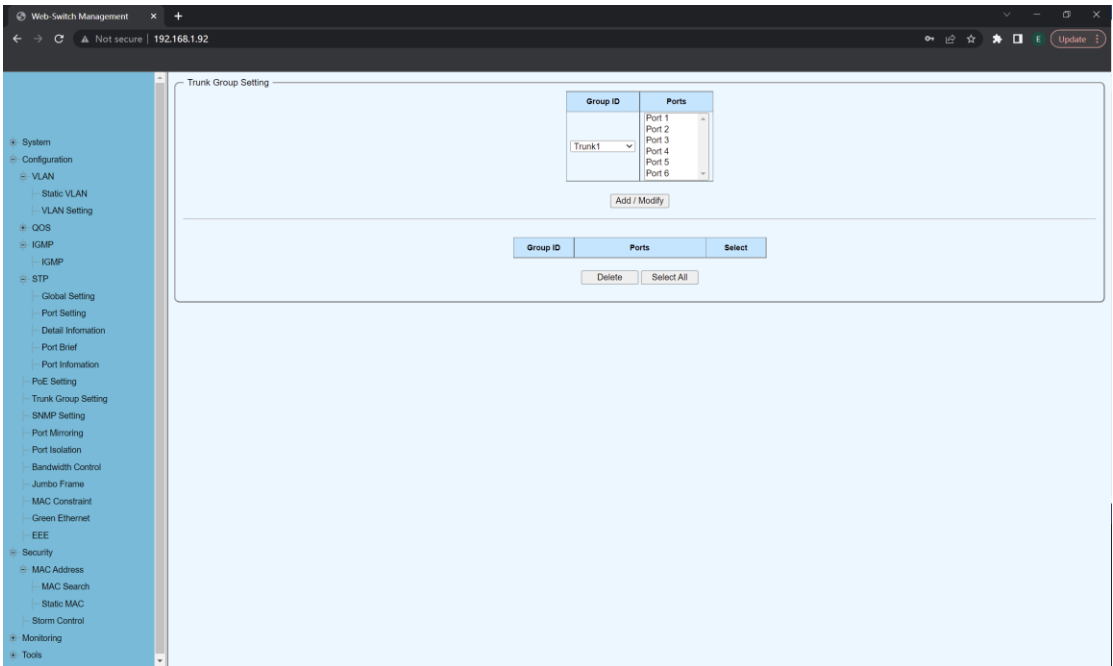
PoE Mode: Enable

Apply

Port	PoE Mode	State	Current(mA)	Power(W)	Temperature(°C)
Port 1	Disabled	Off	0	0.0	0
Port 2	Disabled	Off	0	0.0	0
Port 3	Disabled	Off	0	0.0	0
Port 4	Disabled	Off	0	0.0	0

2.6 Trunk Group Setting

Trunk group settings page, which is used to configure and show port aggregation.



2.7 SNMP Setting

SNMP Setting

System Name	switch
System Location	
System Contact	
Community	public
Server IP Address	0.0.0.0

Apply

2.8 Port Mirroring

The port mirroring settings page is used to configure and show port based mirroring.

Port Mirroring Setting

Mirror Direction	Mirroring Port	Mirrored Port List
Disable	Port 1	Port 1 Port 2 Port 3 Port 4 Port 5 Port 6

Apply

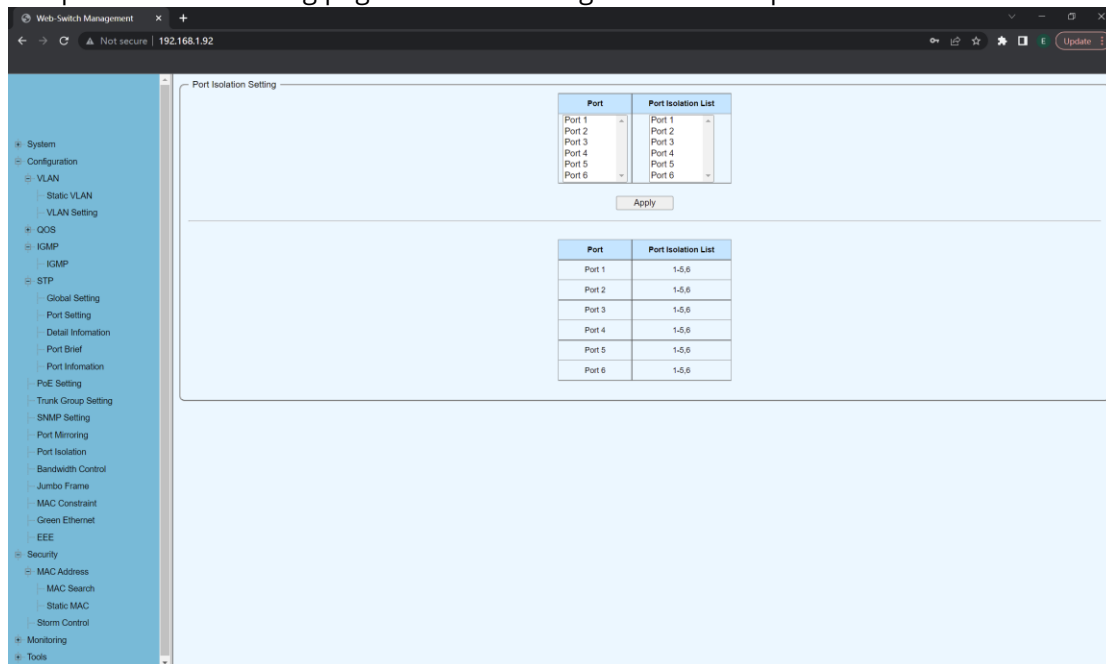
Mirror Direction	Mirroring Port	Mirrored Port List
Disabled	-	-

Delete

Item	Description	Notes
Mirror Direction	Disable/Rx/Tx/Both	
Mirroring Port	Port 1 - 6	
Mirrored Port List	Port 1 - 6	

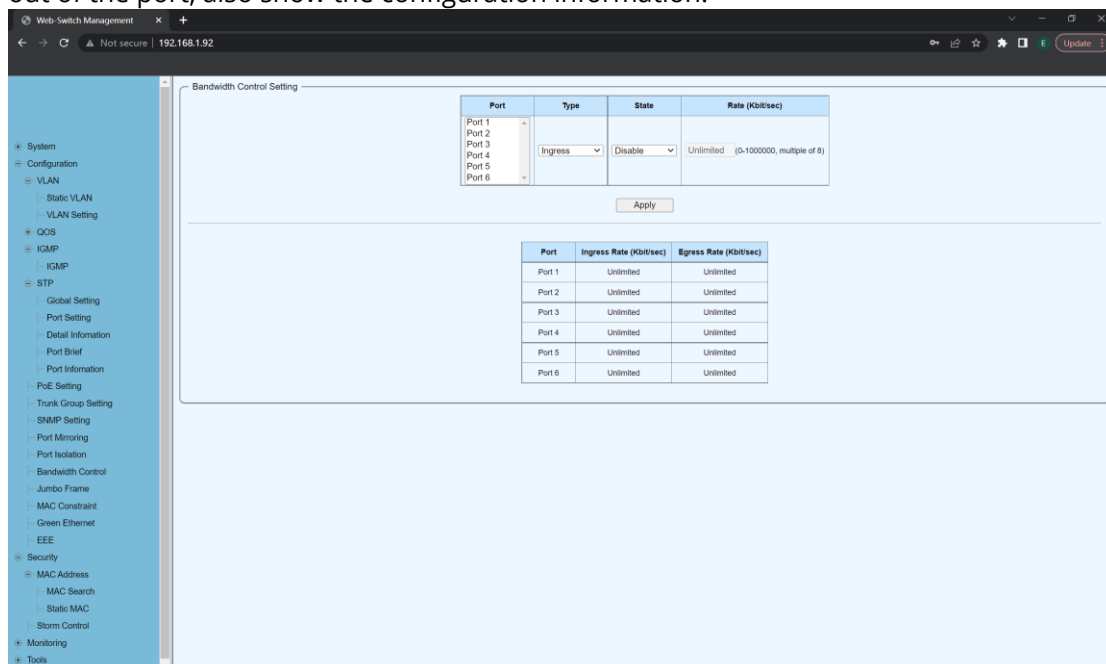
2.9 Port Isolation

The port isolation setting page is used to configure and show port isolation.



2.10 Bandwidth Control

The bandwidth control setting page is used to configure the message bandwidth in and out of the port, also show the configuration information.



Item	Description	Notes
Port	Port 1 - 6	
Type	Ingress/Egress	
State	Enable/Disable	Default:Disable
Rate	Configuration when state in enable 0-100000Kbit/sec	Multiple of 8

2.11 Jumbo Frame

Giant frame setting page, which is used to configure the maximum frame length allowed, in bytes.

The screenshot shows the 'Jumbo Frame Setting' page in the Web Switch Management interface. The left sidebar contains a navigation menu with categories: System, Configuration (VLAN, QOS, IGMP, STP, PoE Setting, Trunk Group Setting, SNMP Setting, Port Mirroring, Port Isolation, Bandwidth Control, Jumbo Frame, MAC Constraint, Green Ethernet, EEE), Security (MAC Address, MAC Search, Static MAC, Storm Control), Monitoring, and Tools. The main content area is titled 'Jumbo Frame Setting' and features a 'Jumbo Frame (Bytes)' dropdown menu set to '16383' and an 'Apply' button.

Item	Description	Notes
Jumbo Frame (Bytes)	1522/1536/1552/16383	Unit:Bytes

2.12 Mac Constraint

The MAC constraint behavior page is used to configure the number of MAC allowed to be learned by the port and the processing behavior of the MAC address learned by the port.

The screenshot shows the 'MAC Constraint Action Setting' and 'MAC Constraint Setting' pages in the Web Switch Management interface. The left sidebar is the same as in the previous screenshot. The main content area is divided into two sections. The top section, 'MAC Constraint Action Setting', has a 'Learn Over Action' dropdown set to 'Drop' and an 'Apply' button. The bottom section, 'MAC Constraint Setting', contains a table for configuring MAC constraints per port.

Port	State	Entry Limits
Port 1		
Port 2		
Port 3		
Port 4		
Port 5		
Port 6		

Below the table, there is an 'Apply' button and a summary table:

Port	Entry Limits
Port 1	Unlimited
Port 2	Unlimited
Port 3	Unlimited
Port 4	Unlimited
Port 5	Unlimited
Port 6	Unlimited

Mac Constraint Action Setting

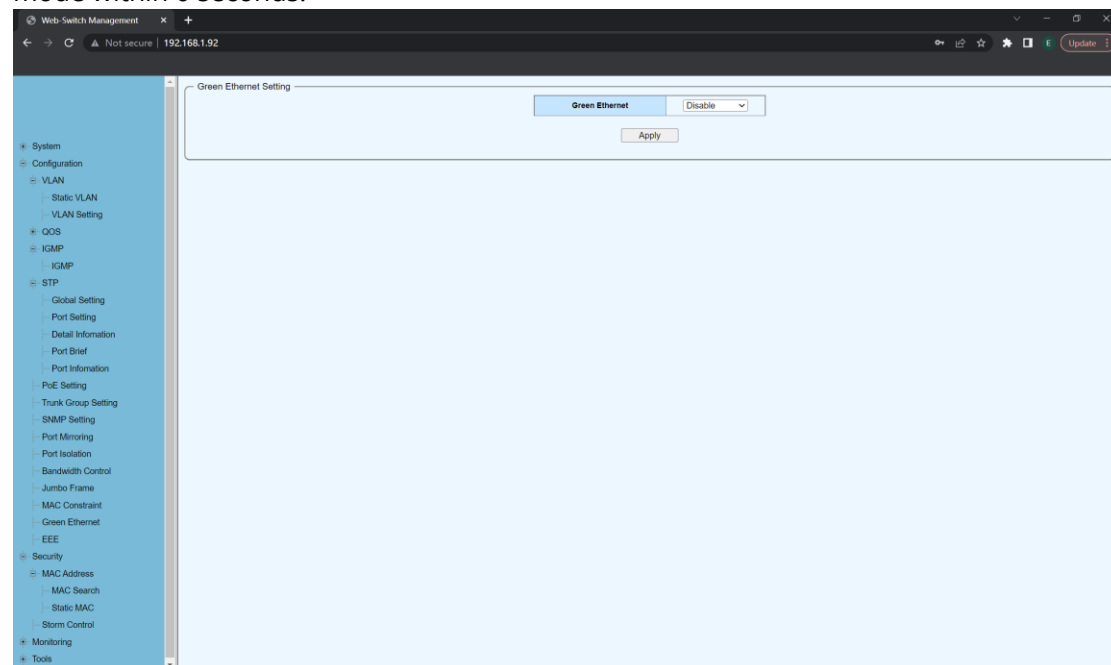
Item	Description	Notes
Learn Over Action	Drop / Flooding	

Mac Constraint Setting

Item	Description	Notes
Port	Port 1 - 6	
State	Enable/Disable	
Entry Limits	0-2112	Default:Unlimited

2.13 Greent Ethernet Setting

The green Ethernet setting page is used to enable or disable the green Ethernet function. Reduce energy consumption by setting green Ethernet function. When the Green function is enabled, the system will automatically detect the cable length and select different power modes to obtain the best performance and minimum power consumption. If the connection is disconnected, the port will enter the power saving mode within 0 seconds.



2.14 Security

2.14.1 Security MAC Address – Mac Search

The MAC address search page is used to query the MAC address and display the VLAN ID.

The screenshot shows the 'MAC Addresses Searching' page. On the left is a navigation menu with categories: System, Configuration (VLAN, QOS, IGMP, STP, PoE Setting, Trunk Group Setting, SNMP Setting, Port Mirroring, Port Isolation, Bandwidth Control, Jumbo Frame, MAC Constraint, Green Ethernet, EEE), Security (MAC Address, MAC Search, Static MAC, Storm Control), Monitoring, and Tools. The 'MAC Search' option under 'Security' is selected. The main content area has a title 'MAC Addresses Searching' and two input fields: 'MAC Address' (containing '00:00:00:00:00:00') and 'VLAN ID' (containing '(1-4094)'). Below these fields is a 'Search' button.

2.14.2 Security MAC Address – Static Mac

The static MAC page is used to add, display and delete the static MAC address of the port.

The screenshot shows the 'Static MAC Setting' page. The left navigation menu is the same as in the previous screenshot, with 'Static MAC' selected under 'Security'. The main content area has a title 'Static MAC Setting'. It features a form with four fields: 'MAC Address' (containing '00:00:00:00:00:00'), 'VLAN ID' (containing '(1-4094)'), 'Port' (a dropdown menu showing 'Port 1'), and 'Source MAC Blocking' (a checkbox). Below the form is an 'Add' button. Underneath the 'Add' button is a table with the following structure:

No.	MAC Address	VLAN ID	Port	Source MAC Blocking	Select
-----	-------------	---------	------	---------------------	--------

Below the table is a 'Delete' button.

Item	Description	Notes
MAC Address	Added Static Mac Address	
VLAN ID	The VLAN to which the added static MAC belongs	

Port	The port to which the added static MAC belongs
Source Mac Blocking	If this option is checked, the message carrying this MAC is not allowed to pass

2.15 Storm Control

The storm suppression page is used to suppress the flood message.

The screenshot shows the 'Web Switch Management' interface in a browser. The left sidebar contains a navigation menu with categories like System, Configuration, QoS, STP, PoE Setting, Security, and Monitoring. The main content area is titled 'Storm Control Setting'. It features a form with the following fields:

- Storm Type:** A dropdown menu currently set to 'Broadcast'.
- Port:** A list box showing ports Port 1 through Port 6.
- State:** A dropdown menu currently set to 'Off'.
- Rate (kbps):** A text input field with a value of '10000000' and a unit selector set to '(B-'.

Below the form is an 'Apply' button. Underneath the form is a table showing the current configuration for each port:

Port	Broadcast (kbps)	Multicast (kbps)	Unknown Unicast (kbps)	Unknown Multicast (kbps)
Port 1	Off	Off	Off	Off
Port 2	Off	Off	Off	Off
Port 3	Off	Off	Off	Off
Port 4	Off	Off	Off	Off
Port 5	Off	Off	Off	Off
Port 6	Off	Off	Off	Off

Item	Description	Notes
Storm Type	Broadcast, Multicast, Unknown Unicast and Unknown multicast	
Port	Configure the port where storm suppression takes effect.	
State	Off/On	
Rate	8-1000000 kbps	

2.16 Monitoring

2.16.1 Monitoring-Port Statistics

The display letter includes the status of the port, the connection status, the correct data packet sent, the wrong data packet sent, the correct data packet received and the wrong data packet received.

The screenshot shows the 'Web-Switch Management' interface in a browser. The left sidebar contains a navigation menu with categories: System, Configuration, QOS, IGMP, STP, Security, and Monitoring. Under 'Monitoring', 'Port Statistics' is selected. The main content area is titled 'Port Statistics Information' and displays a table with the following data:

Port	State	Link Status	TxGoodPkt	TxBadPkt	RxGoodPkt	RxBadPkt
Port 1	Enabled	Link Down	0	0	0	0
Port 2	Enabled	Link Down	0	0	0	0
Port 3	Enabled	Link Down	0	0	0	0
Port 4	Enabled	Link Up	2679	0	56081	0
Port 5	Enabled	Link Down	0	0	0	0
Port 6	Enabled	Link Down	0	0	0	0

Below the table is a 'Clear' button.

2.16.2 Monitoring-Cable Diagnostic

The cable diagnosis page is used to diagnose whether the network line is normal.

The screenshot shows the 'Web-Switch Management' interface in a browser. The left sidebar contains a navigation menu with categories: System, Configuration, QOS, IGMP, STP, Security, and Monitoring. Under 'Monitoring', 'Cable Diagnostic' is selected. The main content area is titled 'Cable Diagnostic' and displays a table with the following data:

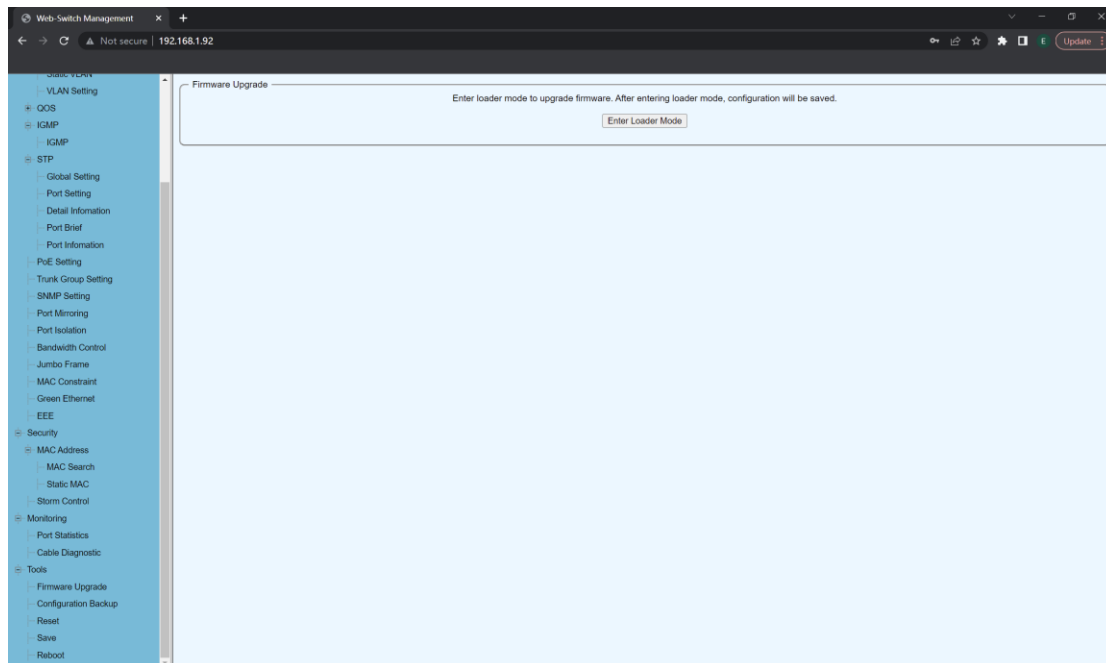
Check	Port	Test Result	Cable Fault Distance
<input type="checkbox"/>	1	-	-
<input type="checkbox"/>	2	-	-
<input type="checkbox"/>	3	-	-
<input type="checkbox"/>	4	-	-
<input type="checkbox"/>	5	-	-

Below the table is an 'Apply' button.

2.17 Tools

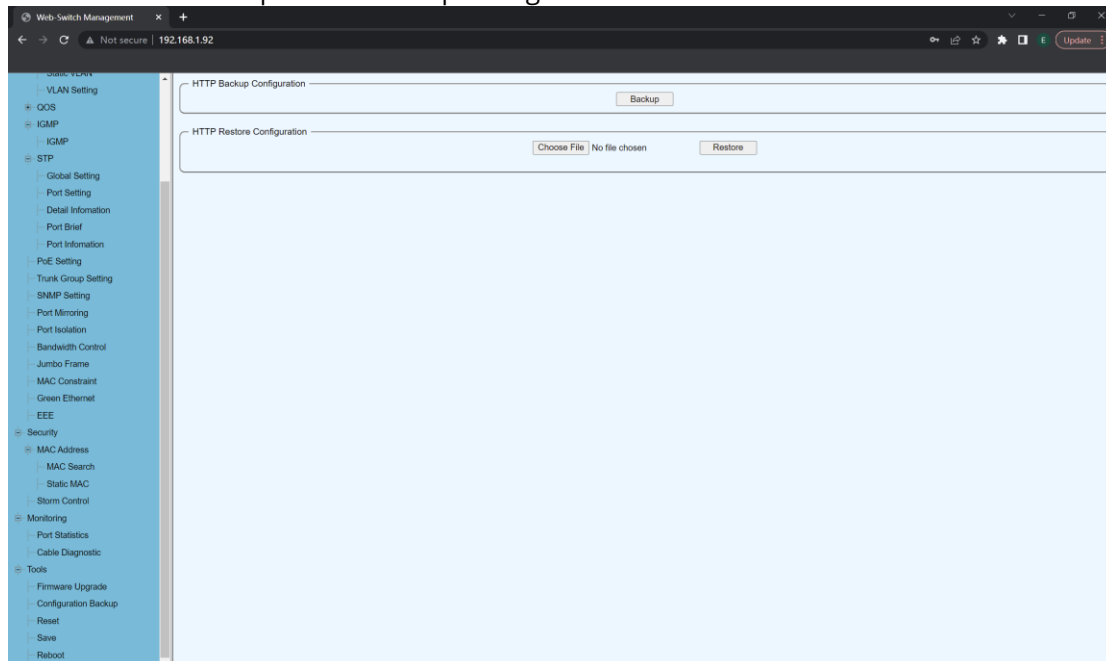
2.17.1 Tools-Firmware Upgrade

The firmware upgrade page is used to enter the loading mode and upgrade in the loading mode.



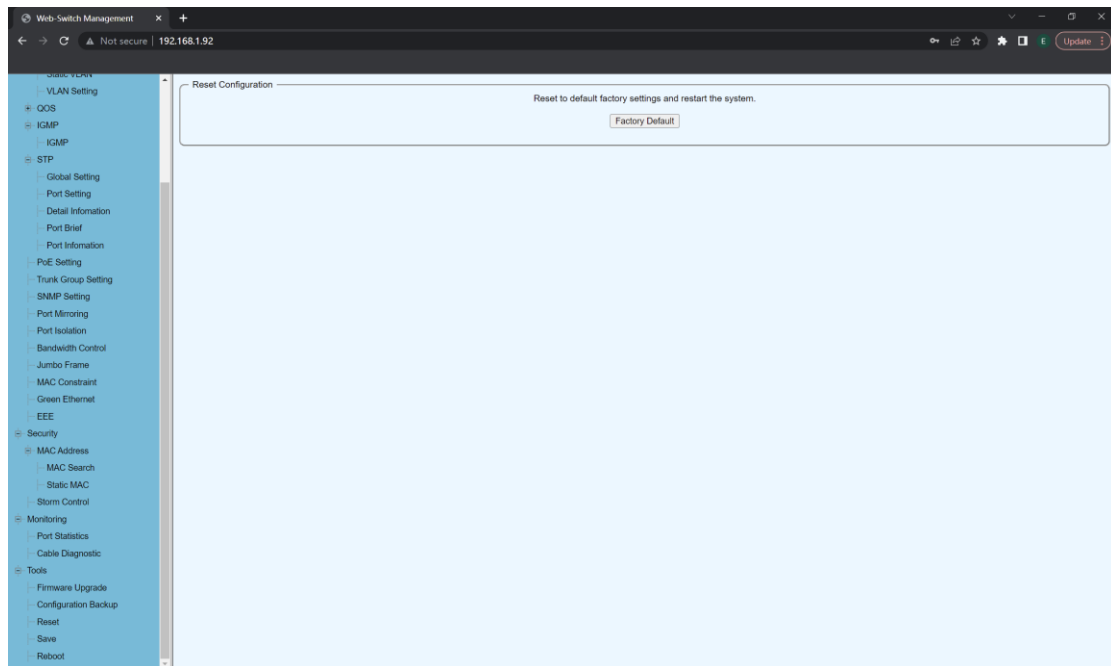
2.17.2 Tools-Configuraion Backup

The configuration backup page is used for configuration import and export. Click the Backup button to export the configuration to PC backup. Click the select File button to restore the configuration, select the configuration of PC backup, and then click the restore button to import the backup configuration into the device.



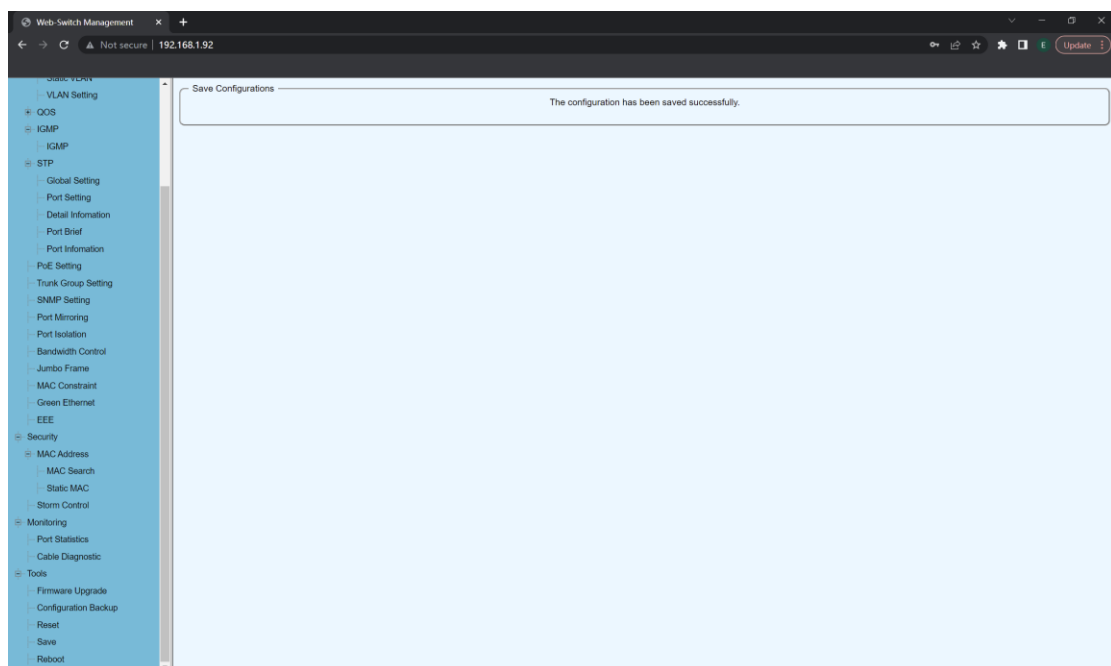
2.17.3 Tools-Reset

The restore configuration page is used to restore the factory settings. Enter the reset page and click the restore factory default button. The system will restart and restore to the factory default configuration at the same time.



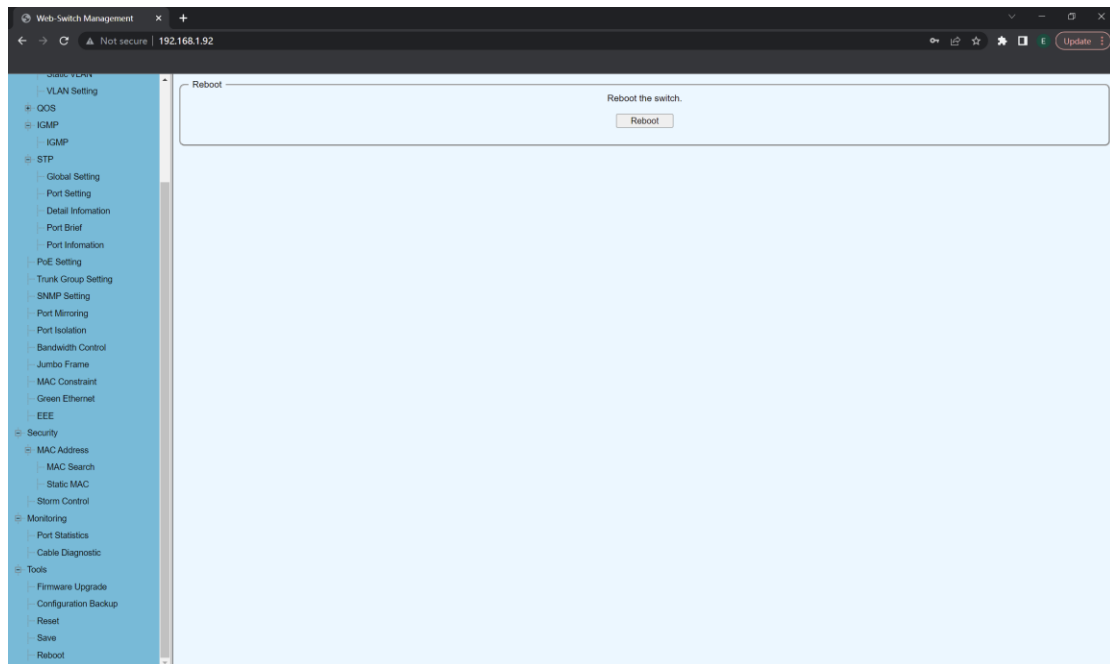
2.17.4 Tools-Save

The save page is used to save the configuration. After clicking the save page, the system configuration will be saved immediately, and the configuration saving page will show that the configuration has been saved successfully.



2.17.5 Tools-Reboot

Reboot paged used to reboot the device.



The information in this document is subject to change without notice. Fiberroad has made all effects to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty. If you have any questions please feel free to contact to us.

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