

Industrial PoE Switch

Web-based Network Management User Manual

Ver. 2.0

About This Manual

Introduction

This document chapter includes an introduction to the Fiberroad L2+ Managed Industrial PoE Switch 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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Units of Measurement

Units of measurement in this publication conform to SI standards and practices.

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Revision History

Version	Date	Author	Reasons of Change	Section(s) Affected
1.0	2017/12/04		Initial Release	All
2.0	2022/07/4		MSTP/Port Description/Static Route/Summer Time	Portion

Chapter 1 System Configurations

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

- Administrator
- Router Table
- ARP Table
- Software Upgrade

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 PoE Switch on the network and make sure that any one of the PCs on the network can connect with the Industrial PoE Switch through the web browser.

The Smart PoE 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

⊘ IR-SM3424P - Sign in X +	
← → C 🔺 Not secure 192.168.1.6/dologin.asp	🖻 🖈 🖈 🖬 📵 🗄
III. Apps	
FIBERROAD	

Series Sw	itch	
Username Password	admin	Login

1.2 Device Summary

Overview the device information and port status.

Collapse	Device Information		Port	Rx Rate(bps)	Tx Rate(bps)	Wavelength(nm)
ce Summary	Product Model	FR-7M3208	GE/1	68.30K	24.00K	N/A
em	System Name	switch	GE/2	0.00	0.00	N/A
igement	Product MAC Address	001893-12544D	GE/3	0.00	0.00	N/A
Configuration	Product Serial Number	N/A	GE/4	0.00	0.00	N/A
inced onfig	Software Released Date	2022-04-27 09:30:55	GE/5	0.00	0.00	N/A
onrig m	Date And Time	2000-01-01 00:13:40	GE/6	0.00	0.00	N/A
m Management	Running Time	13 Minute 40 Second	GE/7	0.00	0.00	N/A
inded	Current Temperature	30.0 °C	GE/8	0.00	0.00	N/A
	Power Supply Status	Power 1	GE/9	0.00	0.00	Removed
			GE/10	0.00	0.00	Removed
		26.8%				

1.3 System - Administrator

1.3.1 System-Administrator-Administrators

Add Users and its level, status and description.

FIBERROAD	PWRE ALM PWRE ALM PWRE RUN RST CONSOLE	ļ ļ	÷÷÷ PPP		Running Tin	ne: 00:14:01	Save	Language: Auto	✓ Logout	
Expand Collapse	O Name	Password								
-Device Summary	admin									
😑 System		Add User								
Administrator	(Marked with is the Primary Super Administra	Name								
Administrators		Password								
-Online Users		Confirm Password			1					
-Management Setting		Level	Guest User v							
System Log		Status	Super Administrator							
Configurations		Description	Senior Administrator Junior Administrator							
Date & Time			Guest User	Cancel						
-Summer Time			τφριγ	Galicer	1					
- Device Status										
-ARP Table										
-Software Upgrade										
Reboot										
Version Information										
Management										
Base Configuration										
Advanced										
E3 Config										
Alarm										
PoE Management										
Extended										
				- · · · ·			-			
ltem				Descriptio	n		n n	lotes		
		_								
Name/Pass	sword/Confir	mPass	sword				Α	s Need	bed	
Level				Super/Sen	ior/lunior		-			
Level				•	ior/jumor/	Guesi	-			
Status				ON/OFF						
	_									
Descriptior	1						A	s Need	bec	

Remarks: 1. A total of 16 users can be added regardless of the level

1.3.2 System – Administrator - Online Users

Overview online users information

FIBERROAD					Running Time: 00:14:31	Save Language: <mark>Auto ∨</mark> Logout
Expand Collapse	Name	Level	Login Type	Login Information	Login Time	Description
Device Summary	*admin	Super Administrator	web-3	::ffff:192.168.1.138	2000-01-01 00:07:08	Default Administrator
 System Administrators Administrators Administrators Administrators Management Setting System Log Configurations Date & Time Summer Time Device Status ABP Table Software Upgrade Reboot Version Information Advanced Al Configuration Advarmed Base Configuration Advanced LS Config Alarm POE Management Extended 	(Marked with ⁻ in	current administrator.)		Rafeah		

Remarks: 1, Only super administrator have this privilege.

1.3.3 System – Administrator – Management Setting Access Timeout Setting

Description	Notes
1-30(When enabled)	Default:5 minutes
	1-30(When enabled) 1-30(When enabled) 1-30(When enabled)

1.4 System Log

1.4.1 System Log – Setting

In the system log setting interface, you can view or modify system log configuration

FIBERROAD	PVRE ALM PVRE ALM EDITOR		Running Time: 00:17:13	Save Language: Auto 💙 Logout
Expand) Collapse Device Summary System Administrator Administrators Online Users Management Setting	System Log Setting Admin Status Output To Console Output To Local Cache	[Enabled ✓ ○ On # Off Level(INFO ✓ # On ○ Off Level(INFO ✓		
© System Log Setting View	Output To Remote Hosts Host IP Address	Host ip Por	t	Level
Configurations Date & Time Summer Time Device Status				
ARP Table Software Upgrade Reboot Version Information				
Management Base Configuration Advanced L3 Config				
Alarm PoE Management Extended				

Item	Description	Notes
Admin Status	Enable/Disable	Default: Enable
Output To Console	ON/OFF	Default:OFF
Output To Local Cache	ON/OFF	Defalt:ON
Level	System log level, divided into 8 levels according to the severity EMERG: level 0, the system cannot be used ALERT : Level 1, need to be processed immediately CRIT: Level 2, Severe State ERR: Level 3, Error Status WARNNING : Level 4, Warning Status NOTICE : Level 5, normal but important state INFO : Level 6, Notification Event DEBUG : Level 7, debugging information	Default: INFO

Click the "Add" button, to the output to remote hosts setting.

FIBERROAD				Running Time: 00:18:00	Save Language: <mark>Auto Y</mark> Lo
Device Summary Administrator Administrators Online Users Management Setting	stem Log Setting Imin Status Setting Imin Status Imin To Conole Imin Setting Industry Imin Setting Imin Sett	P Address	jpvH(A.B.C.D) (S14]+1024-65534>) Default 514 Cencel Host (p Port		Level

ltem	Description	Notes
Host IP Address	Remote log host IP address	
Host IP Port	Remote log host port, range 514,1024- 65534	Default:514
Level	System log level, divided into 8 levels according to severity EMERG: level 0, system cannot be used ALERT : Level 1, need to be processed immediately CRIT: Level 2, Severe State ERR : Level 3, Error Status WARNNING : Level 4, Warning Status NOTICE : Level 5, normal but important state INFO : Level 6, Notification Event DEBUG : Level 7, debugging information	Default: INFO

Remarks: 1. The smaller the log level value, the higher the level. Only logs with a level equal to or greater than the set level will be output. For example, if you set the logging level to the console to 5 (NOTICE), only logs with level 0 to 5 will be output to the console.

1.4.2 System Log – View

FIBERROAD		Running Time: 00.18-25	Sava Language <mark>Auto Y</mark> Logout
Expand) Collapse Device Summary System Administrator Administrators Online Users Management Setting System Log Setting Vere Configurations Date & Time Summer Time Device Setus ABP Table Software Upgrade Reboot Version Information Hanagement Advanced Advanced S Advanced S Advanced P Advanced P Advanced P Advanced P Advanced P Advanced P Advanced P Advanced	System Log Particular Depart Claw 2000-01-01 00100111 1 MATH syncholastocrefefultAndBaboot! [Reset Batton] 2000-01-01 0010011 1 MATH syncholastocrefefultAndBaboot! [Reset Batton] 2000-01-01 0010011 1 MATH syncholastocrefefultAndBaboot! [Reset Batton] 2000-01-01 001011 1 MATH syncholastocrefefultAndBaboot! [Reset Batton] 2000-01-01 0010014 1 MATH syncholastocrefefultAndBaboot! [Reset Batton] 2000-01-01 001		

ltem	Description	Notes
Refresh	Refresh the system log content	
Reversed	New to old display in chronological order	
Export	Export the contents of the system log	
Clear	Clear he contents of the system log	

1.5 Configurations 1.5.1 Configurations - View

FIBERROAD			Running Time: 00:06:04	Save Language: <mark> Auto ❤</mark> Logout
Expand) Collapse Device Summary System Administrator System Log Configurations Configurations Configurations Date Time Device Status ARP Table Software Upgrade ARP Table Software Upgrade Resout Uversion Information Advanced Base Configuration Advanced Software Upgrade Resout Software Upgrade Software Upgrade Resout Software Upgrade Software Upgrade Resout Software Upgrade Software Upgrade Software Upgrade Resout Software Upgrade Software Upgrade Sof	Configuration View Configuration View I Running Configuration Introduct mice : switch Introduct mice : switch Introduct Mice Advances : 00189-129400 Introduct Mice Advances : 00189-129400 Introd	Running Configuration Startup Configuration Reload	Running Time: 0008.04	Save Language Auto V Lopoxt

ltem	Description	Notes
Running Configuration	Show system running configuration	Text Style
Startup Configuration	Show system startup configuration	Text Style
Reload	Reload the running or startup configuration	

1.5.2 Configurations – Import

FIBERROAD		Running Time: 00:07:00	Save Language: Auto 🗸 Logout
Expand Collapse Device Summary Expendit Collapse System # Administrator # System Configurations Configurations Configurations Configuration Co	BrowseSubmt	Running Time: 00.07.50	Seve Language: Auto v Logout
POE Management Port Config Smart Power Config Time Range Config Time Range Config Time Range Config Extended			

Remarks: 1, In the Configurations [Import] interface, click [Browse], select the configuration file to import, and click [Submit] to start the import.

WebGUI User Manual

1.5.3 Configurations – Export FIBERROAD Expand Collapse Device Summary System Administrator System Log Configuration Export Ex

Remarks: 1. Export configuration is divided into startup configuration and running configuration. Click [Export] in the corresponding project to prompt up the "File Save" dialog box (different browsers may differ, here take the IE11 browser as an example), click [Save] to export the corresponding configuration file to the local.

1.5.4 Configurations – Restore Factory Default

FIBERROAD				Running Time: 00:12:25	Save	Language: Auto	 Logout
Expand Collapse	Restore Factory Default						
-Device Summary	Restore Factory Default	Restore	(*System will reboot after restoring to factory default)				
🖲 System		Trestare					
8-Administrator							
Administrators							
Online Users							
Management Setting							
B Router Table							
Static Entries							
Router Table							
System Log							
Configurations							
View							
Import							
Export							
Restore Factory Default							
Date & Time							
- Device Status							
ARP Table							
Software Upgrade Reboot							
Management							
Base Configuration							
Advanced							
Alarm							
B PoE Management							
-Port Config							
Smart Power Config							
Time Range Config							
Timing Supply Config							
Extended							

Configuration Steps

1, Click [Restore] and then click [OK] in the confirmation dialog box to restore the factory configuration.

2. Click [Cancel] to cancel the factory configuration restoration. After a successful factory reset, the system automatically restarts to take effect to the factory configuration.

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1.5.5 Configurations – Date & Time

FIBERROAD	PWR2 ALM PWR2 ALM PWR2 ALM PWR2 ALM CONSCLE	Running Time: 00.07:57 Save Language: Auto V Logout
Expand Collapse	Date & Time	
-Device Summary	System Time	2000-01-01 00:08:00
System Administrator	Time Zone	(GMT+8:00) Beijing, Perth, Singapore, Hong Kong 🗸
Administrator System Log	Manual Set Time	2000 v Year 01 v Month 01 v Day 00 v Hour 07 v Minute 57 v Second Set to PC time
Configurations	SNTP Client	Disabled V
View		Rofresh Apply
Import		consul shirt
Export		
-Restore Factory Default		
-Date & Time		
-Summer Time		
- Device Status		
ARP Table		
-Software Upgrade		
- Reboot Version Information		
Management		
Base Configuration		
Advanced		
L3 Config		
Alarm		
PoE Management		
-Port Config		
-Smart Power Config		
-Time Range Config		
Timing Supply Config		
Extended		

ltem	Description	Notes
System Time	Display the actual effective system time.	Read Only
Time Zone	System time zone setting, select any time	
Time Zone	zone from the drop-down list.	
Manual Set	It can be set after the SNTP client is disabled.	
Time	The year range is 1970-2037.Others are the	
Time	same as the common settings.	
Set to PC time	Synchronize with PC time	
SNTP Client	Enabled: Enable the SNTP client	Default:Disabled
SNIP Client	Disabled: Disable the SNTP client	Default:Disabled

Date & Time	Date & Time				
System Time	2018.06.25-17:15:52				
Time Zone	1T+8:00) Beijing, Perth, Singapore, Hong Kong				
Manual Set Time)18 * Year 6 * Month 25 * Day 17 * Hour 15 * Minute 10 * Second				
SNTP Client	Enabled				
	Unicast IP-8.8.8.8 Interval(unit:minutes) 1440 <10-43200> Sync now MultiCast Broadcast Sync Status				

	Refresh Apply			
ltem	Description	Notes		
Synchronous Mode	Unicast Multicast Broadcast	These three modes are multi-selectable, but at least one must be selected		
IP	IP address pf SNTP, Default IP address 8.8.8.8; Interval range 10-43200, and default value 1440	Only for unicast mode		
Interval	Interval SNTP client time synchronization interval			
Sync now	SNTP client immediate synchronize times			

FIBERROAD				Running Time: 00:10:25	Save Language Auto 💙 Logout
Expand Collapse Device Summary	Summer Time Setting Summer Time	Disabled			
System	Summer Time	Non-Recurring			
Administrator		Recurring Disabled	Refresh Apply		
System Log		Disabied			
Configurations					
View					
Import					
Export					
Restore Factory Default					
-Date & Time					
-Summer Time					
-Device Status					
-ARP Table					
-Software Upgrade					
Reboot					
Management					
Base Configuration					
Advanced					
L3 Config					
Alarm					
PoE Management					
-Port Config					
-Smart Power Config					
-Time Range Config					
Timing Supply Config					
Extended					

1.5.6 Configurations – Summer Time Setting

Configuration Step

1.Select [System/ Summer Time] in the navigation bar to enter the [Summer Time] interface.

Non-Recurring

Summer Time Setting				
Summer Time	Non-Recur V			
Start Time	[1970 v] Year [01 v] Month [01 v] Day [00 v] Hour [00 v] Minute [00 v] Second			
End Time	[1970 v] Year [01 v] Month [01 v] Day [00 v] Hour [00 v] Minute [00 v] Second			
Offset(unit:minutes)	<1-1440> Default:0minutes			

Refresh Apply

Recurring

Summer Time Setting	ummer Time Setting			
Summer Time	Recurring V			
Start Month	January v			
Start Week	First v			
Start Day	Monday V			
Starting Time of Day	00 V Hour 00 V Minute 00 V Second			
End Month	January 🗸			
End Week	First v			
End Day	Monday v			
Ending Time of Day	00 v Hour 00 v Minute 00 v Second			
Offset(unit:minutes)	0 <1-1440> Default:0minutes			

Default: Disabled

1.5.7 Configurations – Device Status

FIBERROAD		Running Time: 00:10:58 Save Language: Auto V Logout
Expand Collapse	Device Information	
- Device Summary	Product Model	FR-7M3208
System	System Name	switch
Administrator	Product MAC Address	001893-12544D
System Log	Product Serial Number	N/A
Configurations Urew	Software Version	V2.0
	Software Released Date	2022-04-27 09:30:55
Import Export	Hardware Version	V2.0
Restore Factory Default	Date And Time	2000-01-01 00:11:01
-Date & Time	Running Time	11 Minute 1 Second
-Summer Time	CPU Usage	18.0%
-Device Status	Memory Usage	26.9% (Total:126484 KBytes, Free:92436 KBytes)
ARP Table	Nvram Usage	3.9% (Total:262136 Bytes, Free:251880 Bytes)
-Software Upgrade	Current Temperature	31.0 °C
Reboot	Power Supply Status	Power 1
Version Information	Forter suppry status	
Management		Refresh
Base Configuration		
Advanced		
L3 Config		
Alarm		
PoE Management		
Port Config		
-Smart Power Config		
-Time Range Config		
Timing Supply Config		
Extended		

In the [Device Status] interface, the basic information and the operating status information of the device system are displayed.

ltem	Description	Notes
Product Model	The device mode	Read Only
Product MAC	The device MAC address	Read Only
Address		
Product Serial	The device product serial number	Read Only
Number		
Software Version	The software version running on	Read Only
Software	The time when running the software	Read Only
Released Date		
Hardware Version	The hardware version of the current device	Read Only
Date and Time	The device system time	Read Only
Operation Hours	The system running time	Read Only
CPU Usage	The system's CPU usage.	Read Only
Memory Usage	The memory usage of the device system	Read Only
Configuration	Configuration space usage of the device	Read Only
Usage	system	

1.5.8 Configurations – ARP Table

Each switch has an ARP table to stroe the IP addresses and MAC addresses of the network devices.

FIBERROAD			Running Time: 00:1	1:26	Save	Language: Auto 🗸	Logout
Expand Collapse	IP Address	MAC Address		Interface			
- Device Summary	192.168.1.138	98FC84-E3273F		ip0			
System							
Administrator							
System Log							
Configurations							
View							
Import							
Export							
Restore Factory Default							
Summer Time							
-Device Status							
ARP Table							
-Software Upgrade							
Reboot							
Version Information							
Management							
Base Configuration							
Advanced							
E L3 Config							
Alarm							
😑 PoE Management							
Port Config							
-Smart Power Config							
-Time Range Config							
Timing Supply Config							
Extended							
		Prev Next 1 1 Go First Last	Refresh				

1.5.9 Configurations – Software Upgrade

FIBERROAD			Running Time: 00:11:44	Save Language: <mark>Auto V</mark> Logout
Expand Collapse	System Information			
- Device Summary	Product Model	FR-7M3208		
System	Software Released Time	2022-04-27 09:30:55		
Administrator	Software Version	V2.0		
System Log		·		
Configurations View	Software Upgrade			
Import	Software Upgrade	Browse		
-Export		Submit		
Restore Factory Default		O domini		
-Date & Time				
-Summer Time				
-Device Status				
-ARP Table				
-Software Upgrade				
Reboot				
-Version Information				
Management				
Base Configuration				
 Advanced L3 Config 				
Alarm				
PoE Management				
Port Config				
-Smart Power Config				
-Time Range Config				
Timing Supply Config				
Extended				

Configuration Step

1, On the [Software Upgrade] interface, click [Browse] to select the upgrade file to be imported. (The upgrade files are generally of the form .ub and .urk. Marked with "b" for BOOT files and "r" for "File System". The file is marked with k for the file with the kernel. Click [Submit]. The system starts uploading the upgrade file. After the upload is complete, the device automatically restarts to update the software after the upgrade is complete.

2, During the software upgrade, make sure that the device is powered up until the upgrade is completed.

1.5.10 Configurations – Reboot

FIBERROAD		PWRE ALM PWRE ALM RET CONSOLE		Running Time: 00:12:03	Save	Language: Auto Y	Logout
Expand Collapse	Reboot						
- Device Summary	Reboot		Reboot				
System							
Administrator							
System Log							
 Configurations 							
View							
Import Export							
Restore Factory Default							
-Date & Time							
Summer Time							
Device Status							
ARP Table							
Software Upgrade							
Reboot							
Version Information							
 Management 							
Base Configuration							
Advanced L3 Config							
Alarm							
PoE Management							
-Port Config							
-Smart Power Config							
Time Range Config							
Timing Supply Config							
Extended							

Configuration Step

1.Select [System / Configurations / Reboot] in the navigation bar to enter the [Reboot] interface

2. Click [Reboot] and the 'Confirm Restart' dialog box will pop up. Click OK to restart the device. A restart progress bar is displayed. Click [Cancel] to cancel the restart of the device.

18 0 0 17	192.168.1.6 says Are you sure you want to reboot the system? OK Cancel	20
	Message window System is rebooting	
	12%	

Chapter 2 Management Configurations

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

- IP Interface
- SNMP
- LLDP

2. Management

2.1.1 Management - IP Interfaces – Settings

IP (Internet Protocol Address) is short for IP Address. IP address is a unified address format provided by the IP protocol, which assigns a logical address to each network and host on the Internet to mask physical address differences.



Configuration Steps

1. Select [Management / IP Interface / Setting] in the navigation bar to enter the IP interface [Setting].

2. All current IP interface and configuration information can be viewed in the IP interface [Setting],

3. To add a new IP interface, click [Add], then fill in the relevant configuration, and click [Apply],

4. To modify an IP interface, check the corresponding IP interface, click [modify], then modify the configuration, and click [Apply], the IP interface is shown.

5. To delete an IP interface, check the appropriate IP interface and click [Delete].

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2	Setting					
8	Static IP Address	IPv4(A.B.C.D)				
2	Subnet Mask	IPv4(A.B.C.D)				
	VLAN	<1-4094>				
	IPv6	Disabled ~				
	IPv6 Address	IPv6(X::X:X/M)				
		Apply Cancel				

ltem	Description	Notes
Static IP Address	Static IPv4 address, the format is dotted decimal system, each interface IPv4 address can not be in the same network segment.	A.B.C.D
Mask	The mask of IPv4 address	A.B.C.D
VLAN	VLAN bound by assigned IP interface	<1 – 4094>
IPv6	Disabled/Enabled Default:Disab	
IPv6 Address	X::X:X:X/M	

2.1.2 Management – IP Interfaces – DHCP Client

FIBERROAD		Running Time: 00:12:29	Save Language: <mark>Auto v</mark> Logout
Expand) Collapse Device Summary # System # Flansgement # DHCP Client # State # DHCP Client # State # DHCP Client # Advanced # Alarm # Rower Config # Management # Fort Config # Timing Supply Config # Extended	Daabled V Apply	Running Time: 00.12.29	Save Language Auto V Logod

Configuration Step

1,Select [Management / IP Interface / DHCP Client] in the navigation bar to enter the [DHCP Client] interface.

2,In the [DHCP Client] interface, you can view the current configuration information and DHCP client status.

ltem	Description	Notes
Admin Status	Enable/Disable	Default: Disable

Renew	DHCP Client renew the configuration
Release	DHCP Client release the current
	configuration
Refresh	Refresh the configuration

2.1.3 Management – IP Interfaces – DHCP Client(IPv6)

FIBERROAD			Running Time: 00:12:38	Save Language: <mark>Auto ❤</mark> Logout
Expand Collapse Device Summary • System • Management • IP Interfaces • Setting • DHCP Clinet • DHCP Clinet • DHCP Clinet • LDCP • Base Configuration • Advanced • L3 Config • Advances • PG Management	Concol Client(IPv6) Setting Admin Status DHCP Client(IPv6) Status Status IPv6 Address Lesse Time Lesse Strained Lesse Expires (*Pease refresh the page after Reference Or Refease.)	Deabled v Apply Renow Rohease Refresh	Running Time: 00:12:38	Seve Language Auto V Logout
Port Config Smart Power Config Time Range Config Timing Supply Config Extended				

Configuration Steps

1,Select [Management / IP Interface / DHCP Client(IPv6] in the navigation bar to enter the [DHCP Client(IPv6] interface.

2,In the [DHCP Client(IPv6)] interface, you can view the current configuration information and DHCP client status.

ltem	Description	Notes
Admin Status	Enable/Disable	Default: Disable
Renew	DHCP Client renew the configuration	
Release	DHCP Client release the current	
	configuration	
Refresh	Refresh the configuration	

2.2 Management – SNMP

2.2.1 Management -SNMP - v1/v2 setting

The Simple Network Management Protocol (**SNMP**) is an Internet Standard protocol that is based on the manager/agent model with a simple request/response format. The network manager issues a request and the managed agents will send responses in return.

FIBERROAD			Time: 00:12:50 Save Language; <mark>Auto v</mark> Logout
Expand Collapse	SNMP Basic Setting Admin Status	Enabled O Disabled	
 System Management 	SNMP Port System Name	161 <1-65535> Default:161	(Any UTF-8 String Except Spaces, MAX: 255 Bytes)
IP Interfaces Setting	System Location	location	(Any UTF-8 String Except Spaces, MAX: 255 Bytes)
DHCP Client	System Contact	contact	(Any UTF-8 String Except Spaces, MAX: 255 Bytes)
DHCP Client(IPv6)	Communities		
V1/V2 Setting		Community (Any UTF-8 String Except Spaces, MAX: 127 Bytes)	Type Add
-V3 Setting	Communities	public	Read-Only Read-Write
i ⊕-LLDP		private	CRead-Only Read-Write
Base Configuration Advanced L3 Config Alarm PoE Management Port Config Smart Power Config Time Range Config		Agely	
i Timing Supply Config ⊯ Extended			

Configuration Steps

1.Select [Management / SNMP / V1/V2 Setting] in the navigation bar to enter the SNMP interface.

2.You can view the Base Setting of SNMP in the [SNMP Base Setting] interface.3.To modify the Base Configuration, modify the corresponding configuration in the configuration box, and then click [Apply] to make effective.

4. If you want to add a group word, click [Add] and a group word is added to set the group word name and type. The system supports up to eight group characters, with the first and second being the default, so you can add up to six more. Click [Apply] to make effective.

5. To delete a group word, click [Delete] on the right corresponding entry (the first and second are the system default, cannot be deleted), and click [Apply] to make effective.

ltem	Description	Notes			
Admin Status	Enable / Disable	Default: Enable			
SNMP Port	SNMP port with Range <1-65535>	Default: 161			
	System name, any legal character other				
SNMP Name	than a space can be entered with a				
	maximum length of 255				
	System location information, any legal				
System Location	character other than a space can be				
	entered with a maximum length of 255				
System Contact	System contact information, any legal				
	character other than a space can be				

	entered with a maximum length of 255
	Name: Any legal character other than a
	space can be entered with a maximum
	length of 127
	Type: Read and write
	Note : The system supports a maximum
Communities	of 8 group characters and requires at
communities	least two group characters. The default
	two group characters can only change
	the group name, cannot change the type
	or delete. Click [Add] to add a group
	character, add a group character can
	change the name and type, and delete.

2.2.2 Management – SNMP – v3 setting

SNMPv3 addresses issues related to the large-scale deployment of SNMP, accounting, and fault management. Currently, SNMP is predominantly used for monitoring and performance management. SNMPv3 defines **a secure version of SNMP** and also facilitates remote configuration of the SNMP entities.

FIBERROAD	PWR2 ALL PWR1 RU RST				Running	Time: 00:13:11	Save Language: <mark>Auto v</mark>	Logout
Expand Collapse	User Name	User Type	Security Level	Auth Type	Auth Password	Priv Type	Priv Password	
-Device Summary								
🔅 System								
Management								
😑 IP Interfaces								
Setting								
-DHCP Client								
DHCP Client(IPv6)								
SNMP								
V1/V2 Setting								
-V3 Setting								
Trap Setting								
Base Configuration								
Advanced								
L3 Config								
Alarm								
PoE Management								
-Port Config								
-Smart Power Config Time Range Config								
Timing Supply Config								
Extended								
extended								
				Add Modify	/ Delete			

Configuration Steps

1.Select [Management / SNMP V3 Setting] in the navigation bar to enter the SNMP interface.

2.You can view the Base Setting of SNMP in the [SNMP Base Setting] interface.

3.To modify the Base Configuration, modify the corresponding configuration in the configuration box, and then click [Apply] to make effective.

4. If you want to add a group word, click [Add] and a group word is added to set the group word name and type. The system supports up to eight group characters, with the first and second being the default, so you can add up to six more. Click [Apply] to make effective.

5. To delete a group word, click [Delete] on the right corresponding entry (the first and second are the system default, cannot be deleted), and click [Apply] to make effective.

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FIBERROAD	PWEZ ALM PWEZ ALM PWEZ RUN RST CONSOLE	ټ 📮	÷÷÷				Running Time: 00	:13:20	Save Lar	guage: (Auto 💙	Logout	
Expand; Collapse Device Summary System Management Pinterfaces Setting DHCP Client(IPv6) SMMP VJ2 Setting VJ2 Setting Ease Configuration Advanced Ease Configuration Advanced Advanced Smart Power Config Time Range Config Time Range Config Time Range Config Time Range Config Smart Power Power Config Smart Power Config Smart P	User Name Us	er Type SMM PV User Loef Hame User Type Socurity Level Auth Pyse Auth Password Priv Type Priv Password	Security Level	Cancel	h Type	Auth Password		Priv Type	Priv Pa	house		
					Add Modily	Delete						

ltem	Description
User Name	As Needed
User Type	Read-Write/ Read-Only
	NoAuthNoPriv:Communication without authentication and
	privacy.
Security Level	AuthNoRriv:Communication with authentication an witout
	privacy.
	AuthRriv:Communication with authentication and privacy.
	NoAuthNoPriv can't support
	MD5: The MD5 message-digest algorithm is a cryptographically
	broken but still widely used hash function producing a 128-bit
Auth Type	hash value.
Addin Type	SHA: In cryptography, SHA-1 (Secure Hash Algorithm 1) is a
	cryptographic hash function which takes an input and produces
	a 160-bit (20-byte) hash value known as a message digest –
	typically rendered as a hexadecimal number, 40 digits long.
Auth	As Needed
Password	
	Only supports AuthPriv level
	DES: DES is based on the Feistel structure where the plaintext is
	divided into two halves. DES takes input as 64-bit plain text and
Priv Type	56-bit key to produce 64-bit Ciphertext.
	AES: AES algorithm takes 128-bit plaintext and 128-bit secret key
	which together forms a 128-bit block which is depicted as 4 X 4
	square matrix.
Priv password	As Needed

2.2.3 Management – SNMP – Trap Setting

The Simple Network Management Protocol (SNMP) is an Internet-standard protocol used to manage devices on IP networks. The SNMP messages are used to inspect and communicate information about managed objects. The Trap message is one of the types of SNMP messages which are generated to report system events.

FIBERROAD	PWR2 ALM PWR3 ALM RST CONSOLE	- م				Running Time: 00:13:31	Save Language: A	ito 🗸	Logout
Expand Collapse	SNMP Trap Setting								
- Device Summary	Admin Status	OEna	bled Disabled						
 System 	Send Authentication Failed Trap	-	bled						
Management	Default Trap Community	public		(Any UT	F-8 Stri	ng Except Spaces, MAX: 127 Bytes)		
-IP Interfaces		Index	Community (Any UTF-8 String Except Spaces, MAX: 127 Byte			Server IP Address	Server IP Port <1-65535>	Ad	1
Setting	Trap Servers	1	public	,		192.168.1.166	162		_
DHCP Client			12)	102.100.1100	TVE		
DHCP Client(IPv6) SNMP			Ap	ply					
-V1/V2 Setting									
-V3 Setting									
Trap Setting									
LLDP									
Base Configuration									
Advanced									
L3 Config									
Alarm									
PoE Management									
-Port Config									
-Smart Power Config Time Range Config									
Time Range Config									
Extended									

Configuration Steps

1. Select [Management / SNMP / Trap Setting] in the navigation bar and enter the SNMP [Trap Setting] interface.

2. The current trap configuration of SNMP can be viewed in the SNMP [Trap Setting] interface.

3. If you need to modify the Trap Setting, modify the corresponding configuration in the configuration box, and then click [Apply],

4. If you want to add a Trap server, click [Add] and the Trap server entry will occur. The system supports up to 4 groups of Trap servers, the first group is the default of the system and cannot be deleted, so you can add up to 3 groups of Trap servers, click [Apply] to make effective.

5. If you want to delete the Trap server, click [Delete] on the right of the corresponding entry (where group 1 is the default of the system and cannot be deleted), and click [Apply] to make effective.

SNMP Trap Setting								
Admin Status	OEn	abled [•] Disabled						
Send Authentication Failed Trap	Failed Trap OEnabled ODisabled							
Default Trap Community	public		(Any UTF-8 String Except Spaces, MAX: 127 Bytes)					
Trap Servers	Index Community (Any UTF-8 String Except Spaces, MAX: 127 Bytes) Server IP Address Server IP Port <1-65535>							
Trap Servers	1	public		192.168.1.166	162			
		Apply						

ltem	Description	Notes
Admin Status	Enable / DIsable	Default: Enable
Send Authentication	Enable : Enable the Sending SNMP Authentication Failed Trap	Default:Disable

Failed Trap	Disable : Disable the Sending SNMP
	Authentication Failed Trap
Default Trap Community	Default trap Community characters, any legal character other than a space can be entered with a maximum length of 127
Trap Server	Coummunity Characters: Any legal character other than a space can be entered with a maximum length of 127 Server IP Address: The IP address of trap serve, IPv4, dot decimal format. Server IP Port: The IP port of trap serve, range <1-65535>, default 162 Note: The system supports up to 4 servers. Click the [Add]to add. The system default server number:1, community character: public, IP address: 192.168.1.166, IP port: 162. The default server cannot be deleted, but the added server can be deleted.

2.3 Management – LLDP

2.3.1 Management – LLDP - Global Setting

LLDP can be used in scenarios where you need to work between devices which are not Fiberroad proprietary and devices which are Fiberroad proprietary. You can use the LLDP protocol for troubleshooting purposes. The switch gives all the information about the current LLDP status of ports and you can use this information to fix connectivity problems within the network.

FIBERROAD			Running Time: 00:14:07	Save Language: <mark>Auto ❤</mark> Logout
Expand Collapse	LLDP global setting			
-Device Summary	LLDP admin status	Disabled	v	
🖲 System	Transmit interval	30	<5-32768> Default:30 second	
Management	Hold multiplier	4	<2-10> Default:4	
IP Interfaces	Reinit delay	2	<1-10> Default:2 second	
- Setting - DHCP Client	Trap interval	30	<5-3600> Default:30 second	
DHCP Client	Transmit credit num	5	<1-100> Default:5	
SNMP	Fast transmit interval	1	<1-3600> Default:1 second	
V1/V2 Setting	Fast transmit num	4	<1-8> Default4	
V3 Setting		1		
Trap Setting			Apply	
i iii-LLDP				
-Global Setting				
-Port Configurations				
Base Configuration				
Advanced L3 Config				
L3 Config Alarm				
PoE Management				
Port Config				
-Smart Power Config				
-Time Range Config				
Timing Supply Config				
Extended				

Configuration Steps

1. Select [Management / LLDP / Global Setting] in the navigation bar to enter the LLDP [Global Setting] interface.

 The LLDP global configuration can be viewed in the LLDP [Global Setting] interface.
 Modify the corresponding LLDP configuration in the LLDP [Global Setting] interface, and then click [Apply].

LLDP global setting		
LLDP admin status	Disabled •	
Transmit interval	30	<5-32768> Default:30 second
Hold multiplier	4	<2-10> Default:4
Reinit delay	2	<1-10> Default:2 second
Trap interval	30	<5-3600> Default:30 second
Transmit credit num	5	<1-100> Default:5
Fast transmit interval	1	<1-3600> Default:1 second
Fast transmit num	4	<1-8> Default:4
	·	Apply

ltem	Description	Notes
LLDP admin status	Enable / Disable	Default:
		Disable
Transmit interval	LLDP transmit interval range 5-32768	Default: 30
Hold multiplier	LLDP hold multiplier range 2-10	Default: 4
Reinit delay	LLDP reinit delay range 1-10	Default: 2
Trap interval	LLDP trap inerval range 5-3600	Default: 30
Transmit credit num	LLDP transmit credit num range 1-100	Default: 5
Fast transmit	LLDP fast transmit interval range 1-3600	Default: 1
interval		
Fast transmit num	LLDP fast transmit num range 1-8	Default: 4

2.3.2 Management – LLDP – Port Configurations

FIBERROAD		PWR2 ALL PWR1 RU PWR1 RU RST		ļ	Ļ				Running	Time: 00:14:16	Save	Language: Auto 🗸	Log
xpand Collapse Device Summary	Port	Destination addres	Admin Status	Transmit inter val(s)	Hold multip	Reinit delay (s)	Trap interva l(s)	Transmit credi t num	Fast transmit int erval(s)	Fast transmit	Trap enable	TLVs transmit enable	
System	•	0180C2-00000E ~	0 V								0 V		•
lanagement	GE/1	0180C2-00000E	Disabled ~	0	0	0	0	0	0	0	Disabled ~	(•
IP Interfaces Setting	GE/2	0180C2-00000E	Disabled ~	0	0	0	0	0	0	0	Disabled ~		
-DHCP Client	GE/3	0180C2-00000E	Disabled ~	0	0	0	0	0	0	0	Disabled ~		•
DHCP Client(IPv6)	GE/4	0180C2-00000E			0	0	0	0	0	0	Disabled ~		
SNMP	GE/5	0180C2-00000E			0	0			0	0	Disabled ~		
-V3 Setting	GE/6	0180C2-00000E	Disabled ~		0	0			0	0	Disabled ~		-
Trap Setting	GE/7	0180C2-00000E		0	0	0	0	0	0	0	Disabled ~		
Global Setting	GE/8	0180C2-00000E			0	0	0	0	0	0	Disabled ~		
Port Configurations	GE/9	0180C2-00000E	Disabled V		0	0	0		0	0	Disabled V		-
Base Configuration						<u> </u>					(2000000)		
Advanced L3 Config	GE/10	0180C2-00000E	Disabled ~	0	0	0	0	0	0	0	Disabled ~		٠
Alarm							Apply	Refresh					
PoE Management													
-Port Config													
-Smart Power Config													
Time Range Config													
Timing Supply Config													
Extended													

Configuration Steps,

1. Select [Management / LLDP / Port Configuration] in the navigation bar to enter the LLDP [Port Configuration] interface

2. The LLDP port corresponding configuration can be viewed in the LLDP [Port Configuration] interface

3. Choose the LLDP configuration of all ports corresponding to any destination address 0180C2-00000E, 0180C2-000003, 0180C2-000000 in the LLDP [Port Configuration] interface

4. To modify the LLDP configuration of a destination address port, click [Modify] after selecting the destination address, and enter the port configuration interface4.Select or fill out the configuration items that need to be modified, and click [Apply] to make effective. There will be a corresponding prompt if the configuration item is incorrectly filled.

ltem	Description	Notes
	0180C2-00000E	
Destination Address	0180C2-000003	
	0180C2-000000	

Remarks :

0x0180-C200-000E for LLDP frames destined for nearest bridge agents. 0x0180-C200-0000 for LLDP frames destined for nearest customer bridge agents. 0x0180-C200-0003 for LLDP frames destined for nearest non-TPMR bridge agents.

ltem	Description	Notes
	Transmit Only : Enable LLDP port transmit function Receive Only : Enable LLDP port receive	
Admin Status	function Transmit and receive : Enable LLDP port transmit and receive function Disable : Disable LLDP port transmit and receive function	Default: Disable
Transmit Interval(s)	Default: Use[Global Setting] transmit interval LLDP transmit interval range 5-32768	
Hold Multiplier	Default: Use[Global Setting] hold multiplier LLDP hold multiplier range 2-10	
Reinit Delay(s)	Default: Use[Global Setting] reinit delay LLDP reinit delay range 1-10	
Trap Interval(s)	Default: Use[Global Setting] trap interval LLDP trap inerval range 5-3600	
Transmist credit num	Default: Use[Global Setting] Transmist credit num LLDP transmit credit num range 1-100	
Fast transmit interval(s)	Default: Use[Global Setting] Fast transmit interval LLDP fast transmit interval range 1-3600	
Fast transmit num	Default: Use[Global Setting] Fast transmit num LLDP fast transmit num range 1-8	
Trap enable TLVs transmit	Enable / Disable Port Description	

enable	System Name
	System Description
	System Capabilities

Chapter 3 Base Configuration

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

- Ports
- VLAN
- QOS
- FDB

Summary Initial Status Port Type Network Network Special Ougle Network Network Special Ougle Network Network Special Ougle Network Network Network Network Special Ougle Network Network Special Ougle Network Network Network Special Ougle Network Network Network Network Special Ougle Network Net	Save Language: Auto	Save Langu	Save Lang	ime: 00:14:35 Sa	Running T							PWR2 A		FIBERROAD
Function Function Function Corper Output Numerication Automation Special Oppose Output Numerication Special Special Oppose Output Numerication Special Special Oppose Output Numerication Special Special Oppose Oppose Output Function Oppose		tatus	itatus	Admin Status				5	inning Statu	Ru				Collapse
enert onfiguration s 6k/1 V Copper 100M 4/M 0.00 82.41K 0.nd Auto Auto 0ff onfiguration s GE/2 V Copper 100M Full 0.00 82.41K 0.nd Auto Auto 0ff s GE/3 X Copper 100M Half 0.00 0.00 0.nd Auto Auto 0ff secrition GE/4 V Copper 100M Half 0.00 22.41K On Auto Auto Off statistics GE/4 V Copper 100M Full 0.00 22.41K On Auto Auto Off tatistics GE/6 V Copper 100M Full 0.00 22.4K On Auto Auto Off GE/6 V Copper 100M Full 0.00 22.4K On Auto Auto Off GE/7 X <	ontrol EEE	low Control EEE	Flow Control EEI	Duplex Flow Contro	Speed	Admin Status	Tx Rate(bps)	Rx Rate(bps)	Duplex	Speed	Port Type	Link Status	Port	
dE/2 v copper 1004 ku 000	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	32.41K	0.00	Full	100M	Copper	¥	GE/1	
gins GE/3 X Copper 10M Haff 0.00 0.00 On Auto Auto Off Ratus Aud Setting GE/4 GE/3 X Copper 10M Haff 0.00 32.41K On Auto Auto Off GE/4 Y Copper 10M Haff 0.00 32.41K On Auto Auto Off GE/6 Y Copper 10M Haff 0.00 0.00 On Auto Auto Off GE/6 Y Copper 10M Haff 0.00 32.41K On Auto Auto Off GE/7 Y Copper 10M Fall 0.00 32.24K On Auto Auto Off Table GE/7 Y Copper 10M Haff 0.00 0.00 On No Gf Off Gf Off Gf Off Gf Gf Gf Gf <td< td=""><td>Disabled</td><td>Off Disa</td><td>Off Dis</td><td>Auto Off</td><td>Auto</td><td>On</td><td>32.41K</td><td>0.00</td><td>Full</td><td>100M</td><td>Copper</td><td>¥</td><td>GE/2</td><td></td></td<>	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	32.41K	0.00	Full	100M	Copper	¥	GE/2	
Status Assetting Description GE/4 V Copper 100M Full 0.00 21/K On Auto Auto Off Description GE/6 Copper 100M Full 0.00 0.00 On Auto Auto Off Description GE/6 Copper 100M Full 0.00 0.00 On Auto Auto Off Mp Information Tarlific GE/7 V Copper 100M Full 0.00 32.24K On Auto Auto Off Mp Detail Information Section GE/7 V Copper 100M Full 0.00 32.24K On Auto Auto Off N GE/7 V Copper 100M Hall 0.00 0.00 On Auto Auto Off N GE/7 V Fiber 10M Half 0.00 0.00 On Fiber-Auto Fiber Off Off Off	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	0.00	0.00	Half	10M	Copper	×	GE/3	
Ratistics GE/6 Image: Copper intermediate interm	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	32.41K	0.00	Full	100M	Copper	¥	GE/4	
ifp Information (p Detail Information (cF) iff iff Copper 1000M Full 5635K 19.94K On Auto Auto Off iff Obside Copper 100M Kull 0.00 22.24K On Auto Auto Off iff Obside Fiber 100M Kull 0.00 0.00 On BiterAuto Vill Off iff Obside Fiber 100M Half 0.00 0.00 On BiterAuto Vill Off iff Obside Fiber 100M Half 0.00 0.00 On BiterAuto Vill Off iff Obside Fiber 100M Half 0.00 0.00 On BiterAuto Vill Off iff Obside Fiber 100M Half 0.00 0.00 On BiterAuto Vill Off iff State Fiber 100M Half 0.00 0.00 On BiterAuto Vill Off iff State Fiber IoN Half 0.00 0.00 On State Vill Vill Vill iff	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	0.00	0.00	Half	10M	Copper	×	GE/5	Description
intermetent scong cond scong cond scong <thcong< th=""> cond scong cond sc</thcong<>	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	32.24K	0.00	Full	100M	Copper	¥	GE/6	Statistics
Lebs V Copper Tolom Auto Out S2.44 On Auto Auto On N S V Piber 10M Haif 0.00 0.00 On FiberAuto Fiber 0.01 14M 0.01 0.00 0.00 On FiberAuto Fiber 0.01 14M 0.01 0.00 0.00 On FiberAuto Fiber 0.01 14M 0.01 14M 0.01 14M 0.01 14M 14M<	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	19.94K	56.35K	Full	1000M	Copper	¥	GE/7	Sfp Information
N GE/9 X Fiber 10M Half 0.00 On Fiber-Auto Full Off 5 GE/0 X Fiber 10M Half 0.00 On Fiber-Auto Full Off 5 GE/0 X Fiber 10M Half 0.00 On On Fiber-Auto Full Off 5 Table Fiber 10M Half 0.00 0.00 On Fiber-Auto Full Off 1040 Mirror Fiber Fiber Full V Fiber-Auto Full Off 1040 Half 0.00 0.00 On Fiber-Auto Full Off 1040 Fiber Fiber Full Full Full Off 1041 Fiber Fiber Full Full Fiber Full Fiber 1041 Fiber Full Full Full Full Full Full	Disabled	Off Disa	Off Dis	Auto Off	Auto	On	32.24K	0.00	Full	100M	Copper	¥	GE/8	
GE/10 Fiber 10M Half 0.00 On Fiber-Auto Full Off Table Image: Strate S	Disabled	Off Disa	Off Dis	Full Off	Fiber-Auto	On	0.00	0.00	Half	10M	Fiber	×	GE/9	
S S I I I I I I I I I I I I I I I I I I	Disabled	Off Disa	Off Dis	Full Off	Fiber-Auto	On	0.00	0.00	Half	10M	Fiber	×	GE/10	
e nange coming ing Supply Config Bed														t Isolate ced nfig anagement t Config art Power Config ke Range Config ling Supply Config

3 Base Configuration 3.1.1Base Configuration-Port-Status And Setting

Configuration Steps

- 1. Select [Bae Configuration / Ports / Status and Setting] in the navigation bar to enter the [Status and Setting] interface.
- 2. The Status and Settings interface shows the operating status and configuration information for each port.

Setting							
Port	GE/1						
Link Status	Link Down						
Admin Status	On v						
Fiber Mode	Fiber-Auto						
EEE	Disabled V						
	Apply Cancel						

3. If you need to modify the configuration of a port, just click the [Modify] on the right side corresponding entry. to enter the modification interface and modify the corresponding configuration item. Click the [Apply] to complete the modification, and click the [Cancel] to cancel the modification.

Item	Description	Notes					
Port	The name and number of the port						
Link Status	Indicates that the port is linked up						
	Indicates that the port is linked down						
Port Type	Copper or Fiber Port						
Rate	The port working speed, unconnected port						
	is always displayed as 10M						
Duplex	The port working duplex mode, the						
	unconnected port always shows half						
	duplex						
ltem	Description	Notes					
Port		Read Only					
Link Status		Read Only					
Admin Status	ON/OFF	Default: ON					
Fiber Mode	Fiber-Auto	Default:					
	Fiber-100M	Fiber-Auto					
	Fiber-1000M						
EEE	Energy Efficient Ethernet	Default:					
	Enabled / Disabled	Disabled					

Remarks: Energy Efficient Ethernet (EEE) is an IEEE 802.3az standard that is designed to reduce power consumption in ethernet network during idle periods.

	: + 2.168.1.92/main.asp	A* G & G & G & G
FIBERROAD		Running Time: 001515 Save Language: Auto V Logout
Expand Collapse	Port	Description
Device Summary		
 System 	GE/1	
Management	GE/2	
Base Configuration	GE/3	
😑 Ports	GE/3	
-Status And Setting		
Description Statistics	GE/5	
Statistics	GE/6	
-Sfp Detail Information	GE/7	
Traffic	GE/8	
	GE/9	
. QOS	GE/10	
FDB Table		Apply Refresh
- Port Mirror		Appy Politoin
-Port Isolate		
Storm Filters		
Advanced		
+ L3 Config		
🖲 Alarm		
🖻 PoE Management		
-Port Config		
-Smart Power Config		
-Time Range Config		
Timing Supply Config		
Extended		

3.1.2 Base Configuration-Port-Description

3.1.3 Base Configuration-Port-Statistics

FIBERROAD			Running Time: 00	15/44 Save Language: <mark>Auto ❤</mark> Logout				
Expand Collapse	Expand Collapse							
- Device Summary	Port:GE/1 Clear							
 System 	Rx Bytes	181996	Tx Bytes	3605822				
Management	Rx Packets	380	Tx Packets	27426				
Base Configuration	Rx Unicast Packets	292	Tx Unicast Packets	234				
Ports Status And Setting	Rx Multicast Packets	56	Tx Multicast Packets	8467				
-Description	Rx Broadcast Packets	32	Tx Broadcast Packets	18725				
Statistics	Rx Discards Packets	0	Tx Discards Packets	0				
-Sfp Information	Rx Pause Packets	0	Tx Pause Packets	0				
-Sfp Detail Information	Drop Events	0	Fcs Errors	0				
Traffic	Fragments	0						
I VLAN	Port:GE/2 Clear							
+ QOS								
+FDB Table	Port:GE/3 Clear							
-Port Mirror	Port:GE/4 Cear							
Port Isolate	PortGE/5 Cear							
Storm Filters								
Advanced	Port:GE/6 Clear							
L3 Config Alarm	Port:GE/7 Clear							
PoE Management	Rx Bytes	6208721	Tx Bytes	14875507				
-Port Config	Rx Packets	43911	Tx Packets	22834				
-Smart Power Config	Rx Unicast Packets	14984	Tx Unicast Packets	22032				
-Time Range Config	Rx Multicast Packets	8860	Tx Multicast Packets	576				
Timing Supply Config	Rx Broadcast Packets	20067	Tx Broadcast Packets	226				
Extended	Rx Discards Packets	0	Tx Discards Packets	0				
	Rx Pause Packets	0	Tx Pause Packets	0				
	Dron Events	n	Ers Errors	0				
		Ck	ar Ali Refresh					

Configuration Steps

Select [Base Configuration / Ports / Statistics] to enter the port [Statistics] page
 The [Statistics] shows each port statistical information. You can expand corresponding port statistics by clicking flag on the left of port entry, and click cleared button on the right to clear the statistics of the port.

3. Click the [Refresh] to update the statistics of all ports. Click [Clear All] to clear the statistics for all ports.

ltem	Description	Notes
Rx / Tx Packets	Total received / sent packets	
Rx / Tx Unicast Packets	Total received / sent unicast packets	
Rx / Tx Multicast Packets	Total received / sent multicast packets	
Rx / Tx Broadcast	Total received / sent broadcast packets	
Packets		
Rx / Tx Discards Packets	Total received / sent discarded packets	
Rx / Tx Pause Packets	Total received / sent flow control packets	
Drop Events	Drop messages (interval sampling)	
FCS Errors	FCS error packet	
Fragments	Fragment packets (less than 64 bytes)	

3.1.4 Base Configuration-Port-SFP Information

FIBERROAD													
Expand Collapse	Port	Status	Wavelength(nm)	Distance(m)	Bit Rate(MBd)	Ethernet Codes	DDM	Calibrated	Tx Power(dBm)	Rx Power(dBm)	Temperature(°C)	Voltage(V)	Current(mA)
- Device Summary	GE/9	Inserted	1310	20000	1300	N/A	Supported	Internally	-4.98	-inf	23.55	3.28	10.90
System	GE/10	Inserted	1310	20000	1300	Fiber-1000M	Supported	Internally	-7.00	-inf	21.11	3.28	9.05
Management													
Base Configuration								Refresh					
😑 Ports													
-Status And Setting													
Description													
Statistics													
-Sfp Information													
-Sfp Detail Information													
Traffic													
()-VLAN													
e QOS													
+FDB Table													
-Port Mirror													
Port Isolate													
Storm Filters													
Advanced													
L3 Config													
Alarm													
PoE Management Port Config													
- Port Config - Smart Power Config													
- Smart Power Config - Time Range Config													
Time Kange Config													
Extended													
- Extended													

ltem	Description	Notes
Port	The name of information	Read Only
Status	Removed / Inserted	Read Only
Wavelength	Operating Wavelength	Read Only
Distance(m)	SFP effective transmission distance	Unit: Meter
Bit Rate	N/A / Bit Rata	Unit: MBd
Ethernet Codes	N/A / Fiber-100M / Fiber-1000M	Read Only
DDM	N/A / Supported	Read Only
Calibrated	N/A / Internally / Externally	Read Only
Tx Power(dBm)	Transmitter optical power	Unit: dBm
Rx Power(dBm)	Receiver optical power	Unit: dBm
Temperature(℃)	SFP operating temperature	Unit: °C
Voltage(V)	SFP Voltage	Unit: V
Crrent(mA)	SFP Current	Unit: mA

3.1.5 Base Configuration-Port-SFP Detail Information

kpand Collapse	Expand Collapse				Running Time: 00:18:06	Save Language: Auto 🗸 Logou
Device Summary	▼ Port:GE/9					
System	Status	Inserted	Ethernet Codes	BASE-BX10	Mode	Single Mode
Management	Wavelength(nm)	1310	Distance(m)	20000	Bit Rate(MBd)	1300
Sase Configuration	Vendor Name	OEM	OUI	00-00-00	PN	SFP Transceiver
Ports	Version		SN	HW352107150386	Date	2021-07-15
- Description	Connector Type	LC	DDM	Supported	Calibrated	Internally
Statistics	Tx Power(dBm)	-5.01	Rx Power(dBm)	-inf	Temperature(°C)	31.25
-Sfp Information	Voltage(V)	3.28	Current(mA)	10.80		
-Sfp Detail Information						
Traffic	Port:GE/10 Status	Inserted	Ethernet Codes	1000BASE-LX	Mode	Single Mode
VLAN	Wavelength(nm)	1310		20000 20000	Bit Rate(MBd)	1300
QOS	Vendor Name	OEM	Distance(m) OUI	00-00-00	PN	SFP
FDB Table			SN	00-00-00 HW35207001557		SFP 2020-07-04
-Port Mirror	Version	000			Date	
-Port Isolate	Connector Type	LC	DDM	Supported	Calibrated	Internally
-Storm Filters	Tx Power(dBm)	-7.00	Rx Power(dBm)	-inf	Temperature(°C)	27.40
dvanced	Voltage(V)	3.28	Current(mA)	9.30		
3 Config				Refresh		
Alarm						
DE Management						
Port Config						
Smart Power Config						
Time Range Config Timing Supply Config						
timing Supply Config Rended						
ktended						

3.1.6 Base Configuration-Port-Traffic



Remarks: Real-time traffic statistics of each ports.

3.2 Base Configuration - VLAN 3.2.1 Base Configuration-VLAN-Basic Setting

FIBERROAD	the state of the s	VR1 RUN		inini PPP				Runnii	ng Time: 00:19:05) Sav	e Languag	e: Auto 🗸	Logout
Expand Collapse	VLAN Setting												
Device Summary	Choose Range	1-200	✓ 1	Search ('M':	VLAN Port Member	; 'U':VLAN Unta	gged Member)						
System	vlan	Name	GE/1	GE/2	GE/3	GE/4	GE/5	GE/6	GE/7	GE/8	GE/9	GE/10	
Management Base Configuration	1	VLAN1	U	U	U	U	U	U	U	U	U	U	
Base Configuration E-Ports													
ULAN													
Basic Setting													
-Port Setting													
Double VLAN													
• QOS													
+ FDB Table													
-Port Mirror													
-Port Isolate													
-Storm Filters													
Advanced													
L3 Config													
Alarm PoE Management													
Pot Config													
- Smart Power Config													
Time Range Config													
Timing Supply Config													
Extended													
						Top Bottom	1 Setting						

Configuration Steps

1. Select [Base Configuration / VLAN / Basic Setting] to enter the VLAN [Basic Setting] interface.

2. On [Basic Setting] interface, you can view the related configuration information of each VLAN. If you want to find information about a VLAN ID, select the range of the VLAN ID in the drop-down box, enter the specified VLAN ID in the input box, and click [Search].

3. To add, modify, or delete VLANs, click [Setting]. Enter the VLAN to be added, modified, or deleted in the <VLAN list> box on setup interface. Then select Add, Modify, or Delete. Click [Apply]. The setting and modification options can only modify the VLAN name

Basic Setting	
Created VLAN	1
VLAN List	Example:1-10,13,15-4094
	Add Delete Modify Name:
	Apply Cancel

ltem	Description	Notes				
Choose Range						
	To search for a VLAN ID					
	1. Select the interval where the VLAN to be					
	searched in the interval selection box;					
Soorch	2. If you enter a specific VLAN ID in the					
Search	input box, for example 11, the information					
	bar with the VLAN number 11 turns yellow;					
	3. If there is no such VLAN, the					
	corresponding information is prompted.					

Тор	Display the first page of VLAN information	
Bottom	Display the last page of VLAN information	
Item	Description	Notes
VLAN List Box	It is to input the VLAN list to be set and supports multi-VLAN batch input, such as 1,2,3,4-10	
Add	To add the VLAN that is entered in the VLAN list box. VLAN 1 is the default VLAN. It already exists and does not need to be created	
Delete	To delete the VLAN input in the VLAN list box. VLAN 1 is the default VLAN and cannot be deleted.	
Modify	To modify the VLAN input in the VLAN list box. The VLAN name can be modified. The new name needs to be entered in the name box.	

3.2.2 Base Configuration-VLAN-Port Setting

FIBERROAD		PWR2 ALM PWR2 ALM PWR3 RUN RST CONSC	16		Running Time: 00:19:31 Save Language:	Auto 💙 Logout
Expand Collapse - Device Summary # System	Created VI Created VI			1		
Management	Port	VLAN Mode	PVID	Tagged VLANs for hybrid / Permitted VLANs for trunk	Untagged VLANs	Setting
Base Configuration	GE/1	Access	1			Modify
Ports	GE/2	Access	1			Modify
VLAN Basic Setting	GE/3	Access	1			Modify
-Port Setting	GE/4	Access	1			Modify
Double VLAN	GE/5	Access	1			Modify
QOS	GE/6	Access	1			Modify
FDB Table	GE/7	Access	1			Modify
- Port Mirror	GE/8	Access	1			Modify
- Port Isolate	GE/9	Access	1			Modify
Storm Filters	GE/10	Access	1			Modify
L3 Config				Refresh		
Alarm				Notiosi		
PoE Management						
- Port Config						
-Smart Power Config						
-Time Range Config						
Timing Supply Config						
Extended						

Configuration Steps

1. Select [Base Configuration / VLAN / Port Setting] to enter the VLAN Port Setting interface.

2. On the [Port Setting] interface, you can view the VLAN related configuration information of each port.

3. To modify the VLAN configuration of a port, click [Modify] in the corresponding port display field to enter the port setting interface,

4. Select or fill in the configuration items that need to be modified and click [Apply]. There will be prompts if the configuration item is filled in incorrectly.

Port Setting	
Port	GE/1 V
VLAN Mode	trunk 🗸
PVID	39 <1-4094>
Permitted VLAN	Replace Add Delete All Created VLAN Example:1-10,13,15-4094
	Apply Cancel

ltem	Description	Notes
Port	Port Name Information	
VLAN Mode	Port VLAN Mode Access : Access mode Trunk : Trunk mode Hybrid : Hybrid mode	
PVID	Port PVID	<1-4094>
Tagged VLAN	List of VLANs allowed to pass through the port. It supports batch input of multiple VLANs. For example: '1,2,3,4-10'; Add: Add the tagged VLAN to the port as the input VLAN; Delete: Delete the VLAN from the tagged VLAN of the port; Replace: Replace the original tagged VLAN of the port with the input VLAN; All created VLANs: All the created VLANs are tagged VLANs of the port. Even if they are created later, they will be automatically added to the tagged VLAN of the port.	
Untagged VLAN	 Port untagged VLAN list, supports multi-VLAN batch input, such as: "1,2,3,4-10"; Add: Add the incoming VLAN to the untagged VLAN of the port; Delete: Delete the incoming VLAN from the untagged VLAN of the port. Replace: Replace the original untagged VLAN of the port with the input VLAN. 	

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	Port	Mode	Outer PVID	Ingress Mode	Egress Mode
evice Summary	*	0 V	* *	Ø V	0 V
vstem	GE/1	Disabled V	1 ~	All 👻	Untagged V
inagement	GE/2	Disabled ~	1 🗸	All	Untagged ~
se Configuration	GE/3	Disabled ~	1 ~	All	Untagged ~
Ports	GE/4	Disabled ~	1	All 👻	Untagged V
VLAN Basic Setting	GE/5	Disabled ~	1 ~	All 👻	Untagged ~
-Port Setting	GE/6	Disabled ~	1 1	All	Untagged ~
-Double VLAN	GE/7	Disabled ~	1 ~	All 👻	Untagged ~
QOS	GE/8	Disabled V	1 ~	All 👻	Untagged ~
FDB Table	GE/9	Disabled V	1 🗸	All 👻	Untagged V
Port Mirror	GE/10	Disabled ~		All V	Untagged ~
13 Config Narm PoE Management —Port Config —Smart Power Config —Time Range Config					

3.2.3 Base Configuration-VLAN-Double VLAN

ltem	Description	Notes
Port	Port Name Information	Read Only
Mode	Enabled / Disabled	Default: Disabled
Outer PVID	1, 33-46	
Ingress Mode	All / Tagged / Untagged	Default : All
Egress Mode	Tagged / Untagged	Default: Untagged

3.3 Base Configuration-QOS

3.3.1 Base Configuration-QoS- Mapping -802.1p Priority

The 802.1p determines the packet's queue in the outbound port on the switch.

FIBERROAD	Inductival Eliminet Section	PWR2 ALM PWR1 RUN RST CONSOLE					Running Time: 00:19:55	Save	Language: Auto 🗸	Logout
Expand Collapse	802.1p Priority	Mapping								
- Device Summary	802.1p Priority	0	1	2	3	4	5	6	7	
System	Local Priority	0	1	2	3	4	5	6	7	
Management	cocurritority	•						•	,	
Base Configuration					Modify					
Ports										
. VLAN										
-Basic Setting										
- Port Setting Double VLAN										
Double VLAN										
B Mapping										
802.1p Priority										
-DSCP Priority										
Local Priority										
IN Ports										
FDB Table										
-Port Mirror										
Port Isolate										
Storm Filters										
Advanced										
L3 Config										
Alarm										
PoE Management										
-Port Config										
-Smart Power Config Time Range Config										
Timing Supply Config										
Extended										

Configuration Steps

1. Select [Base Configuration / QOS / Mapping / 802.1p Priority] in the navigation bar to enter the QOS [802.1p Priority] interface.

2. On the QOS [802.1p Priority] interface, you can view the mapping from 802.1p priorities to local priorities.

802.1p Priority Mapping															
802.1p Priority	0	1	1		2 3		3		4		5		6		
Local Priority	0 ~	1	~	2	~	3	~	4 ~		5	~	6 ~		7	~
	Apply Back														

3. To modify the mapping relationship, click [Modify] and select the mapped local priority for the corresponding 802.1p priority in drop-down list box.

ltem	Description	Notes
Modify	Modify the mapping between priorities and local priorities	802.1p

3.3.2 Base Configuration-QoS- Mapping – DSCP Priority

DSCP is a 6-bit packet header value used for traffic classification and priority assignment.



Configuration Steps

1. Select [Base Configuration / QOS / Mapping / DSCP Priority] in the navigation bar to enter the QOS DSCP Priority Mapping interface.

2. On the QOS [DSCP Priority] interface, you can view the mapping from DSCP priorities to local priorities.

3. To modify the mapping relationship, click [Modify] and select the mapped local priority for the corresponding DSCP priority in drop-down list box

ltem	Description	Notes
Modify	Modify the mapping between DSCP	
wouldy	priorities and local priorities	

3.3.3 Base Configuration-QoS- Mapping – Local Priority

The local priority is assigned to the local clock and is used if needed when the data associated with the local clock is compared with data on another potential grandmaster (or the master) clock.

FIBERROAD	Industrial Ethernet Seatory	PWR2 ALM PWR1 RUN RST CONSOLE					Running Time: 00:	20:36 Sa	ve Language: Auto	 Logout
Expand Collapse	Local Priority M	apping								
- Device Summary	Local Priority	0	1	2	3	4	5	6	7	
System	Queue	0	1	2	3	4	5	6	7	
Management	-									
Base Configuration						Modify				
+ Ports										
⊜-VLAN										
-Basic Setting										
-Port Setting										
Double VLAN										
e QOS										
Mapping										
-802.1p Priority										
Local Priority										
Ports										
FDB Table										
-Port Mirror										
Port Isolate										
Storm Filters										
Advanced										
L3 Config										
Alarm										
PoE Management										
-Port Config										
-Smart Power Config										
Time Range Config										
Timing Supply Config										
Extended										

Configuration Steps

1. Select [Base Configuration / QOS / Mapping / Local Priority] in the navigation bar to enter the QOS Local Mapping.

2. You can view the mapping from the local priority to the egress queue on the QOS [Local Priority] interface.

3. To modify the mapping relationship, click [Modify] and select the mapped egress queue for the corresponding local priority in drop-down list box.

ltem	Description	Notes
	Modify the mapping relationship)
Modify	between the local precedence ar	nd the
	egress queue	

3.4 Base Configuration-QoS- Ports

3.4.1 Base Configuration-QoS- Ports-Port Priority

Quality of Service (QoS) Port-based settings allow you to configure each port on the device for QoS Local Area Network (LAN) settings using different priority levels for network traffic. This allows the router to prioritize and handle traffic differently on each port so you may get the best performance while connecting to a range of devices.

kpand Collapse						
Device Summary	Port	Default Priority	QOS Policy	Schedule Mode	Weights	Setting
ystem	GE/1	0	NONE	SP		Modify
anagement	GE/2	0	NONE	SP		Modify
ase Configuration	GE/3	0	NONE	SP		Modify
Ports	GE/4	0	NONE	SP		Modify
VLAN	GE/5	0	NONE	SP		Modify
-Basic Setting	GE/6	0	NONE	SP		Modify
-Port Setting	GE/7	0	NONE	SP		Modify
Double VLAN	GE/8	0	NONE	SP		Modify
QOS	GE/9	0	NONE	SP		Modify
Mapping						
S02.1p Priority DSCP Priority Local Priority Ports	GE/10	0	NONE	SP		Modify
Local Priority Local Same Local Local Same Local Local	GE/10	0	NONE	59		[Mosty]
DSCP Priority Local Priority Ports Port Priority Rate Limitation FDB Table	GE/10	0	NONE	55		Modly

Configuration Steps

1. Select [Base Configuration / QOS / Ports / Port Priority] in the navigation bar to enter the QOS [Port Priority] interface.

2. The QOS related configuration of the port can be viewed on the QOS [Port Priority] interface.

3. To modify the QOS configuration of a port, click [Modify] on the corresponding port display to enter the port setting interface, as shown in Figure 5.4.

4. Select or fill in the configuration items that need to be modified and click [Apply] to confirm. There will be prompts if the configuration item is filled in incorrectly.

Port Priority	
Port	GE/2 T
Default Priority	0 <0-7>
QOS Policy	NONE
Schedule Mode	SP •
Weights	1 3 5 7 11 25 31 44 <1-127>
	Apply Cancel

ltem	Description	Notes
Port	Port name information	
Default Priority	The port default with priority	Range <0-7>
	NONE: indicates no policy. The port does not	
QoS Policy	have a policy by default.	
	COS: COS priority policy	

	DSCP: DSCP priority policy				
	OS-DSCP: COS-DSCP priority policy				
	SP: Strict Priority scheduling strategy				
Scheduling	WRR: Weighted Round Robin scheduling				
Mode	strategy				
	WFQ: Weighted Fair Queue scheduling strategy				
	If the selected scheduling mode is WRR or				
Weights	WFQ, you need to configure the weight of each				
weights	queue, total 8 queues. To set 8 weights, the				
	weight of all queues must be 127.				

3.4.2 Base Configuration-QoS- Ports-Rate Limitation

Port-based rate limiting allows you to limit the speed at which network traffic is sent or received by a device that is connected to a port on your switch. Unlike 802.1p Quality of Service (QoS), port-based rate limiting does not prioritize information based on type. Rate limiting simply means that the switch will slow down traffic on a port to keep it from exceeding the limit that you set. If you set the rate limit on a port too low, you might see degraded video stream quality, sluggish response times during online activity, and other problems.

FIBERROAD				Running Time: 00.2	1:03 Save Lange	Jage: Auto 💙 Logout
Expand Collapse	Port	Ingress Rate Limitation	Rate(Kbps)	Egress Rate Limitation	Rate(Kbps)	Setting
-Device Summary	GE/1	Off	N/A	Off	N/A	Modify
System	GE/2	Off	N/A	Off	N/A	Modify
Management	GE/3	Off	N/A	Off	N/A	Modify
Base Configuration	GE/4	Off	N/A	Off	N/A	Modify
VLAN	GE/5	Off	N/A	Off	N/A	Modify
Basic Setting	GE/6	Off	N/A	Off	N/A	Modify
-Port Setting	GE/7	Off	N/A	Off	N/A	Modify
- Double VLAN	GE/8	Off	N/A	Off	N/A	Modify
e qos	GE/9	Off	N/A N/A	Off	N/A	Modify
Mapping						
-802.1p Priority	GE/10	Off	N/A	Off	N/A	Modify
Ports Ports Port Vincity Rate Limitation FDS Table Port Mirror Port Isolate Storm Filters Advanced Advanced Advanced Advanced Advanced Advanced Advanced FDE Management Port Config Time Range Config Time Range Config Time Range Config Time Range Config						
Extended						

Configuration Steps

1. Select [Base Configuration / QOS / Port / Rate Limitation] in the navigation bar to enter the QOS [Rate Limitation] interface.

2. On the QOS [Rate Limitation] interface, you can view the related configuration of the port's speed limit.

3. To modify the port's speed limit configuration, click [Modify] in the port display column to enter the Rate Limitation setting interface.

4. Select or fill in the configuration items that need to be modified and click [Apply] to confirm. There will be prompts if the configuration item is filled in incorrectly.

Rate Limitation			
Port	GE/5	Ŧ	
Ingress Rate Limitation	On 🖲 Of	ff	<16-1000000>kbps
Egress Rate Limitation	On 🖲 Of	ff	<16-1000000>kbps
	Apply	Cancel	

ltem	Description	Notes
Port	Port name information	
Ingress Rate Limitation	Set the port's entry speed limit: On: Enables the port to limit the rate of ingress. The rate limit ranges from <16-1000000> OFF: Close the port's ingress rate limit	
Egress Rate Limitation	Set the port's output speed limit: On: Enables the port to limit the rate of egress. The rate limit ranges from <16- 1000000> OFF: Close the port's egress rate limit	

3.5 Base Configuration-FDB Table

3.5.1 Base Configuration-FDB Table- Configuration – Aging Setting

FIBERROAD					Running Time: 00:21:16	Save	Language: Auto 🗸	Logout	
Expand Collapse	<u>^</u>	Aging Setting							
-Device Summary		Aging Time(unit:second)	● On ○ Off 300	<1-86400> Default:300second					
 System 		Fast Aging Time	Enabled V						
Management									
Base Configuration				Apply					
Ports									
VLAN Basic Setting									
-Port Setting									
Double VLAN									
() QOS									
B-Mapping									
-802.1p Priority									
-DSCP Priority									
Local Priority									
🖻 Ports									
-Port Priority									
Rate Limitation									
+ FDB Table									
Configuration									
Aging Setting									
- Static MAC Entry - Port Learning Ability									
-FDB Table									
Delete Entries									
Port Mirror									
-Port Isolate									
Storm Filters	-								
Advanced									
L3 Config									
Alarm									
PoE Management	÷								

Configuration Steps

1. Select [Base Configuration / FDB Table / Configuration / Aging Time] to enter the [Aging Time] interface.

2. The aging time related configuration of the FDB Table can be viewed in the [Aging Time] interface.

3. If you need to modify the aging time configuration of the FDB Table, you can modify the corresponding configuration in the aging time configuration box and click [Apply].

ltem	Description	Notes
Aging Time	 The FDB Table aging time can be configured via the radio button. Enabled: The aging time is on. Range 1-86400 seconds, default value 300 seconds. Disabled: The FDB Table never aging, but the system resetting could clear the dynamic forwarding entries. Note: Default with Enable, 300 seconds. 	

3.5.2 Base Configuration-FDB Table- Configuration – Static Mac Entry

FIBERROAD	PWRE ALM PWRE ALM PWRE ALM CONSOLE					Running Time: 00:21:28	Save	Language: Auto	✓ Logou	ıt
Expand) Collapse Pervice Summary System System Base Configuration Forts VAN Base Configuration Fort Setting Port Setting Double VLAN QOS Mapping So2.1p Priority DSCP Priority DSCP Priority DSCP Priority Rate Limitation FOB Table Configuration Aging Setting Sate MAC Entry FOB Table Det Kaming Ability FOB Table Configuration Configuration Sate Candidate Enrices Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mirror Port Mi	MAC Address	Static MAC Entry MAC Address VLAN Port	[GE/1 ♥ Apply [Can	2000000-X000000 40942- ad	VLAN		Port			
Storm Filters Advanced L3 Config Alarm PoE Management										

Configuration Steps

1. Select [Base Configuration / FDB Table / Configuration / Static MAC Entry] to enter the [Static MAC Entry] configuration interface.

2. On FDB Table [Static MAC Entry] interface, you can view the static MAC related configuration information of FDB Table,

 If add a new static MAC address, click [Add] to enter the Static MAC configuration interface. Fill in the corresponding configuration items and click [Apply] to complete the addition. There will be prompts if the configuration item is filled in incorrectly.
 If modify the static MAC address, select the corresponding static MAC address and click [Modify] to enter [Static MAC Entry] interface. To modify the corresponding configuration item, click [Apply] to complete the modification. There will be prompts if the configuration item is filled in incorrectly.

5. If delete a static MAC, select the corresponding static MAC and click [Delete] to delete the static MAC.

ltem	Description	Notes
MAC Address	A valid unicast MAC address, format XXXXXX - XXXXXX	
VLAN	A valid VLAN ID, rang 1-4094	

Port	Select a specified port
	Sciece a specifica pore

FIBERROAD	katoli Eliterari kato	PWR2 ALM PWR2 ALM RST			
and Collapse	Port	Admin Status	Learning Number	Running Time: 00:21:38	Save Language: Auto V Logou
evice Summary	GE/1	On	8192		Modify
stem					Modify
nagement	GE/2	On	8192		
se Configuration	GE/3	On	8192		Modify
Ports	GE/4	On	8192		Modify
VLAN	GE/5	On	8192		Modify
-Basic Setting	GE/6	On	8192		Modify
-Port Setting	GE/7	On	8192		Modify
Double VLAN	GE/8	On	8192		Modify
QOS	GE/9	On	8192		Modify
Mapping S02.1p Priority	GE/10	On	8192		Modify
Ports Ports Ports PortPrinty Rate Limitation PDB Table Configuration Aging Setting Static MAC Entry Port Learning Ability PoB Table Delete Entries Pert Mirror					
Port Isolate					

3.5.3 Base Configuration-FDB Table- Configuration – Port Learning Ability

Configuration Steps

1. Select [Base Configuration / FDB Table / Configuration / Port Learning Ability] to enter the [Port Learning Ability] interface.

2. On the FDB Table [Port Learning Ability] interface, you can view the Port Learning Ability related configuration information of FDB Table.

3. To modify the Port Learning Ability configuration, click [Modify] in the corresponding port column to enter the port configuration interface.

4. Select or fill in the configuration items that need to be modified and click [Apply]. There will be prompts if the configuration item is filled in incorrectly.

ltem	Description	Notes
Port	Port name, selected modified port	
	Functional configuration of port learning,	
	configured via radio buttons.	
	ON: The Port Learning Ability is on. IS3000	
Learning	/ IS2000 series range is 1-8192;	
	OFF: Closes the Port Learning Ability.	
	Note: The default is Enable with value	
	8192.	

Remarks: The number of address learning is shared by all ports

3.5.4 Base Configuration-FDB Table- FDB Table

The FDB (forwarding database) table is used by a Layer 2 device (switch/bridge) to store the MAC addresses that have been learned and which ports that MAC address was learned on. The MAC addresses are learned through transparent bridging on switches and dedicated bridges.

FIBERROAD			Ri	inning Time: 00:24:28	Save Language: Auto 💙 Logi
Expand Collapse	Index	MAC Address	VLAN	Port	Туре
Device Summary	0 1	00017C-0801EB	1	GE/7	dynamic
System	2	000311-11220A	1	GE/7	dynamic
Management	3	00031C-0F3003	1	GE/7	dynamic
Base Configuration	4	000BAB-A9FF3F	1	GE/7	dynamic
VLAN	5	001893-1753E4	1	GE/7	dynamic
e QOS	6	001893-1854E5	1	GE/7	dynamic
FDB Table	7	00189D-0ABBCA	1	0E/7	dynamic
Configuration	8	00206B-69FE53	1	GE/7	dynamic
-FDB Table	9	00E04C-36016D	1	GE/7	dynamic
Delete Entries	ID	00E04C-3601AA	1	GE/7	dynamic
-Port Mirror	II	00E04C-373329	1	GE/7	dynamic
-Port Isolate	12	00E04C-4BE122	1	GE/7	dynamic
Storm Filters	13	086266-55303C	1	GE/7	dynamic
Advanced	14	089798-F37726	1	GE/7	dynamic
L3 Config	15	10E7C6-6C6B74	1	GE/7	dynamic
Alarm	16	201A06-BD004A	1	GE/7	dynamic
PoE Management Extended	17	209BE6-123918	1	GE/7	dynamic
		Prev Next 1 // 4	Go First Last De	lote Refresh	

Configuration Steps

1. Select [Base Configuration / FDB Table / FDB Table] to enter [FDB Table] interface.

2. On the FDB Table interface, you can view the FDB Table information.

3. If delete a forwarding entry, select the corresponding forwarding entry or select it all and click [Delete] to delete the entry.

3.5.5 Base Configuration-FDB Table- Delete Entries

FIBERROAD			Running Time: 00:24:43	Save Language: <mark>Auto ~</mark> Logout
Expand) Collapse Device Summary System Management Base Configuration Post Name QOS FDD Table Configuration FDD Table Configuration Advanced Advanced Storm Filtens Advanced Storm Filtens Advanced E Starm Filtens Advanced E Starm Filtens Advanced Storm Filtens Advanced E Starm Filtens Advanced E Starm Filtens Advanced E Starm Filtens Advanced E Starm Filtens E Advanced E Starm Filtens E Starm Filtens	MAC Deletion Deter By Dynamic or Static VLAN Pert	ALL V Dynamic Dstate d-48%* CE1 V Apply		

Configuration Steps

 Select [Base Configuration / FDB Table / Delete] to enter the [Delete] interface.
 If delete related entries in the FDB Table in batches, select the corresponding remove condition in the MAC address deletion column, and then click [Apply].

ltem	Description	Notes
	All: Deletes all FDB Table entries.	
	VLAN: Specifies the VLAN ID to delete FDB Table	
Delete By	entries.	
	Port: Specify the port number to delete the FDB	
	Table entries.	
	Dynamic: Delete the dynamic FDB Table entries	
Dynamic or	that have been learned.	
static	Static: Delete manually added static FDB Table	
	entries.	
VLAN	Delete the forwarding entry of the specified	
VLAN	VLAN. The range is 1-4094.	
Port	Delete the forwarding entry of the specified port.	

3.5.6 Base Configuration-FDB Table- Port Mirror

Port mirroring is used on a network switch to send a copy of network packets seen on one switch port (or an entire VLAN) to a network monitoring connection on another switch port. This is commonly used for network appliances that require monitoring of network traffic such as an intrusion detection system, passive probe or real user monitoring (RUM) technology that is used to support application performance management (APM).

FIBERROAD						Running 1	ime: 00:25:11	Save	Language:	Auto V Logou
Expand Collapse	Port Mirror Setting									
- Device Summary	Admin Status	Disabled	¥							
System	Monitor Port	GE/1	~							
Management Base Configuration	Source Ingress Ports	All GE/8	CPU	GE/1	GE/2	GE/3	GE/4	GE/5	GE/6	GE/7
Ports VLAN QOS	Source Egress Ports	GE/8	CPU	GE/1	🗆 6E/2	🗆 GE/3	0E/4	□ 0E/5	□ 0E/6	GE/7
FOB Table Configuration FOB Table FOB Table FOB Table FOB Table FOB Table Fort Name Fort Name Starm Filters 4 Advanced 4 I Grofig 4 Alarm FOE Management Extended				Apply						

Configuration Steps

1.Select [Base Configuration / Port Mirror] in the navigation bar to enter the [Port Mirror] configuration interface

2.Modify the port mirroring configuration information. Pull down and select to disable or enable mirroring, select the mirroring destination port, check the ingress port and

egress port, the ingress or egress cannot contain the destination port, and click [apply] to submit the modification

ltem	Description	Notes
Admin Status	Select whether to enable port mirroring	
Monitor Port	Select the destination port for port mirroring via	
	drop-down box	
	Select the source port list in the ingress direction.	
Source Ingress	It can be selected with the check button. (The	
Ports	source port list cannot contain the destination	
	port)	
	Select the source port list in the egress direction.	
Source Egress	It can be selected with the check button. (The	
Ports	source port list cannot contain the destination	
	port)	

3.5.7 Base Configuration-FDB Table- Port Isolate

Port isolation allows a network administrator to prevent traffic from being sent between specific ports. This can be configured in addition to an existing VLAN configuration, so even client traffic within the same VLAN will be restricted.

FIBERROAD						Running	Time: 00:25:26	Save	Language: Auto	~	Logout
Expand Collapse Device Summary System Management Base Configuration Ports VLAN VLAN Configuration Do Table Configuration For Manor For Manor Advanced Storm Filters Advanced Extended	10	Notate Add Isolate (D Isolate Ports	 ki-32- ki-32- 0 et/2 0 et/2 0 et/2 Apply	ncel	_ ce/s }						

Configuration Steps

1.Select [Base Configuration / Port Isolate] in the navigation bar to enter the [Port Isolate] configuration interface

2.Modify the port isolate configuration information. Pull down and select to Add or Modify, enter Isolate ID, select a Isolate Ports, and click [apply] to submit the modification.

3.5.8 Base Configuration-FDB Table- Storm Filters

Broadcast filtering helps to prevent a broadcast storm, which is a massive transmission of broadcast packets being sent by a single port to every port on a local area network (LAN). Forwarded message responses can overload network resources, slow regular network traffic, or cause the network to time out. Broadcast filtering lets you limit the number of broadcast packets that each port sends. When you turn on broadcast filtering, you have the option to set the storm control rate on each port of your switch.

OE/1 On GE/2 On GE/3 On GE/4 On GE/5 On GE/6 On		64	011		off	N/A	Modify
GE/3 On GE/4 On GE/5 On				21/2			
GE/4 On GE/5 On		64		N/A	011	N/A	Modify
GE/5 On			011	N/A	Off	N/A	Modify
		64	Off	N/A	Off	N/A	Modify
GE/4 0n		64	0ff	N/A	Off	N/A	Modify
		64	Off	N/A	Off	N/A	Modify
GE/7 On		64	Off	N/A	Off	N/A	Modify
GE/8 On		64	Off	N/A	Off	N/A	Modify
GE/9 On		64	Off	N/A	Off	N/A	Modify
GE/10 On		64	011	N/A	Off	N/A	Modify
	GE/9 On	GE/9 On	GE/9 On 64	GE/9 On 64 Off	OE/9 On 64 Off N/A	0E/7 On 64 Off N/A Off	0E/P 0n 64 0ff N/A 0ff N/A

Configuration Steps

1. Select [Base Configuration / Storm Filters] in the navigation bar to enter [Storm Filters] configuration interface.

2. The Storm Filtering interface displays broadcast storm filtering configuration information for each port.

3. To modify the port storm filtering configuration information, click the [Modify] to enter the [Storm Filters] modification interface, as shown in Figure 13.2. Enter valid configuration parameters and click [Apply] to submit the changes. Click [Cancel] to cancel the modification

ltem	Description	Notes
Port	Modify the configured port	
	ON - If you choose to enable, enter the	
Broadcast	corresponding rate suppression value, <16-	
Packets	1000000>, and enter 16, unit is kbps	
	OFF	
	On - If you choose to enable, enter the	
Unknown	corresponding rate suppression value, <16-	
Unicast Packets	1000000>, enter 16, unit is kbps	
	OFF	
Unknown	On - If you choose to enable, enter the	
	corresponding rate suppression value, <16-	
Multicast	1000000>, enter 16, unit is kbps	
Packets	OFF	

Chapter 4 Advanced Configurations

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

- ACL
- DHCP snooping
- Multicast
- GMRP
- GVRP
- EPRS

4. Advanced Configuration

4.1 Advanced Configuration – Ports – Ports Security

Port security is a layer-2 traffic control feature on Fiberroad Industrial switches. It enables an administrator configure individual switch ports to allow only a specified number of source MAC addresses ingressing the port.

C A Not secure 192.168.132/mining Image: Collapse Image: Collapse Image: Collapse Expand] Collapse Image: Collapse Image: Collapse Device Summa Image: Collapse Image: Collapse Besc Configuration Image: Collapse Image: Collapse Besc Configuration Image: Collapse Image: Collapse Image: Port Security Image: Collapse <td< th=""></td<>
Expand Collapse Pert Mede Action Slate MAC1 MAC2 MAC3 Cearrer Device Summary \$ yatem © < < < < <
Expand Collapse Pert Mede Action Slate MAC1 MAC2 MAC3 Cearrer Device Summary \$ yatem © < < < < <
Device Summary ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ···
System GE/I Disabler v Trap Non-Execution 00000-00000 00000-00000 Court # Management 66/2 Disabler v Trap Non-Execution 00000-00000 00000-00000 Court Base Configuration 66/2 Disabler v Trap Non-Execution 00000-00000 00000-00000 Court Advanced 66/3 Disabler v Trap Non-Execution 00000-00000 00000-00000 Court # Advanced 66/4 Disabler v Trap Non-Execution 00000-00000 00000-00000 Court # ACL 66/4 Disabler v Trap Non-Execution 00000-00000 00000-00000 Court # DACP snooping 66/7 Disabler v Trap Non-Execution 00000-00000 00000-00000 Court # DACP Snooping 66/4 Disabler v Trap Non-Execution 00000-00000 00000-00000 Court # Multicast 66/8 Disabler v Trap Non-Execution 000000-00000 0000
Management Be/l Datable v Trap Non-Execution 00000-00000 00000-00000 00000-00000 Count # Base Configuration 66/2 Datable v Trap Non-Execution 00000-00000 00000-00000 Count # Advanced 66/2 Datable v Trap Non-Execution 00000-00000 00000-00000 Count # Ports 66/4 Disable v Trap Non-Execution 00000-00000 00000-00000 Count # Add 66/3 Disable v Trap Non-Execution 00000-00000 00000-00000 Count # Add 66/3 Disable v Trap Non-Execution 00000-00000 00000-00000 Count # Add 66/3 Disable v Trap Non-Execution 00000-00000 00000-00000 Count # DACP Server 66/3 Disable v Trap Non-Execution 00000-00000 00000-00000 Count # Mittast 66/4 Disable v Trap Non-Execution 000000-00000
Base Configuration 66/2 Disabled v Trap v Non-Execution 000000-000000 000000-000000 Court = Advanced 66/3 Disabled v Trap v Non-Execution 000000-000000 000000-000000 Court = Ports 66/4 Disabled v Trap v Non-Execution 000000-000000 000000-000000 Court = Ports 66/4 Disabled v Trap v Non-Execution 00000-000000 000000-000000 Court = ACL 66/4 Disabled v Trap v Non-Execution 00000-000000 00000-000000 Court = bHCP mooping 66/7 Disabled v Trap v Non-Execution 00000-000000 00000-000000 Court = bHCP Server 66/8 Disabled v Trap v Non-Execution 00000-000000 00000-000000 Court = Multicast 66/9 Disabled v Trap v Non-Execution 00000-000000 00000-000000 Court = Multicast 66/8 Disabled v Trap v Non-Execution <
Advanced 06/3 Datablet v Trap Non-Execution 000000-000000 000000-000000 Court = Ports 6E/4 Disablet v Trap Non-Execution 000000-000000 000000-000000 Court = Ports 6E/4 Disablet v Trap Non-Execution 000000-000000 000000-000000 Court + ACL 06/4 Disablet v Trap Non-Execution 000000-000000 000000-000000 Court + DICP server 66/7 Disablet v Trap Non-Execution 000000-000000 000000-000000 Court + DICP server 66/8 Disablet v Trap <v< td=""> Non-Execution 000000-000000 000000-000000 Court + Multicast 66/8 Disablet v Trap<v< td=""> Non-Execution 000000-000000 000000-000000 Court + Multicast 66/8 Disablet v Trap<v< td=""> Non-Execution 000000-000000 000000-000000 Court + Multicast 66/8 Disablet v Trap<v< td=""> Non-Execution 000000-0</v<></v<></v<></v<>
Ports 0E/4 Disabler Trap Nen-Execution 000000-00000 000000-00000 Court + ACL 0E/4 Disabler Trap Non-Execution 000000-00000 000000-00000 Court + ACL 0E/4 Disabler Trap Non-Execution 000000-00000 000000-00000 Court + ACL 0E/4 Disabler Trap Non-Execution 000000-00000 000000-00000 Court + DHCP snooping 0E/7 Disabler Trap Non-Execution 000000-00000 000000-00000 Court + DHCP Server 0E/4 Disabler Trap Non-Execution 000000-00000 000000-00000 Court + Multicast 0E/8 Disabler Trap Non-Execution 00000-000000 000000-00000 Court + Multicast 0E/8 Disabler Trap Non-Execution 00000-00000 00000-00000 Court + Multicast 0E/8 Disabler Trap Non-Execution 000000-00000 00000-00000 <t< td=""></t<>
Pict Security BE/3 Disabled ~/> Trap ~/ Nen-Execution 000000-000000 000000-000000 Court + ACL 6/4 Disabled ~/ Trap ~/ Non-Execution 000000-000000 000000-000000 Court + DCP snopping 6/7 Disabled ~/ Trap ~/ Non-Execution 000000-000000 000000-000000 Court + DCP Snopping 6/7 Disabled ~/ Trap ~/ Non-Execution 000000-000000 000000-000000 Court + Multicast 66/8 Disabled ~/ Trap ~/ Non-Execution 000000-000000 000000-000000 Court + Multicast 66/8 Disabled ~/ Trap ~/ Non-Execution 000000-000000 000000-000000 Court + GMRP 66/9 Disabled ~/ Trap ~/ Non-Execution 000000-000000 000000-000000 Court
In DHCP snooping 66/7 Disabled v Trap Non-Execution 000000-000000 000000-000000 Count In DHCP Server 66/8 Disabled v Trap Non-Execution 000000-000000 000000-000000 Count In Multicast 66/8 Disabled v Trap Non-Execution 000000-000000 000000-000000 Count In Multicast 66/8 Disabled v Trap Non-Execution 000000-000000 000000-000000 Count
i Dec/P Server Output Trap Nen-Sexention O00000-000000 O00000-000000 Court i Multicast 66/8 Disabled v) Trap Nen-Sexention 000000-000000 000000-000000 Court i Multicast 66/8 Disabled v) Trap Nen-Sexention 000000-000000 000000-000000 Court i 6MP 00001 Trap V Nen-Sexention 000000-000000 00000-000000 Court
Multicast 6E/9 Disabled Trap Non-Execution 000000-000000 000000-000000 Count # GMRP 6E/9 Disabled Trap Non-Execution 000000-000000 000000-000000 Count
* GMRP 66/7 Disabled v Trap v Net-Execution 000000-000000 000000-000000 Clear
05/00 Disabled v Tan v New Evention 000000 000000 000000 000000 000000 0000
* GVAP 05/0 Unades 0 (11/2) (00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 00000-00000 0000-00000 0000-00000 00000-00000 0000-00000 00000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-00000 0000-000000
Pppy Korear
Loopback Note: If you want to modify the mode, you must enable the port learning ability and set the learning number to \$152.
+ STP
* ERPS
+ L3 Config
+ Alarm
* PoE Management
* Extended

Configuration Steps

1.Select [Advance] in the navigation bar to enter the [Port Security] configuration interface

2.Modify the Port Security configuration information. Pull down and select to disabled or enabled mode, select the action, enter the number of MAC addresses to be secured on a port, and click [apply] to submit the modification.

ltem	Description	Notes		
Mode	Mode Enable port security on the desired ports. If			
	desired, specify the secure MAC address.			
Action	Trap/Shundown/Trap&Shundown/Drop/Trap&Drop)		

MAC 1/MAC	You can add MAC address to the list of secure
2/MAC 3	address

Remarks: If you want to modify the mode, you must enable the port learning ability and set the learning number to 8192.

4.2 Advanced Configuration – ACL

4.2.1 Advanced Configuration – ACL – ACL Group Setting

The Groups for ACLs feature lets you classify users, devices, or protocols into groups and apply those groups to access control lists (ACLs) to create access control policies for those groups.

 ③ FR-7M3208 - ACL Group Settli × ← → C ▲ Not secure 192. 						∨ – 07 × 12 ☆ ✿ ■ E Update :
C	roe.r.92/main.asp					
FIBERROAD	PRIG AM PRICE IN IN IN FILTE IN IN CONCLE				Running Time: 00:26:40	Save Language: <mark>Auto ❤</mark> Logout
Expand Collapse		Group Name		Binding Ports		
System		ACL Group Setting	«O-3999»			
 Management Base Configuration 		Group Name	10-37777			
Advanced Ports Port Security		Binding Ports	GE/1 GE/2 GE/7 GE/8 ding Ports empty to disable th	GE/3 GE/4 GE/9 GE/10 ACL Group.)	□ GE/5	
				ncel		
-ACL Group Setting						
DHCP snooping DHCP Server						
Multicast GMRP						
. GVRP						
802.1X Link Aggregation						
Loopback STP						
ERPS						
L3 Config Alarm						
PoE Management Extended						

Configuration Step

1. Select [Advanced / ACL / ACL Group Setting] in the navigation bar to enter the ACL interface.

2. The ACL information will be added in [ACL Group Setting] interface.

3. Add an ACL Group: click [Add] to enter [ACL Group Setting] interface, An ordinal number (0-3999) is assigned to the group. Set a name for the group, not repeatable. Then select the port and bind to the group. It is not workable if port binding not done. Click [Apply] to complete the configuration.

4. Modify an ACL Group Configuration: select an ACL group and click [Modify] to enter the [ACL Group Setting] interface. Fill in the required configuration items, and click [Apply] to complete the configuration.

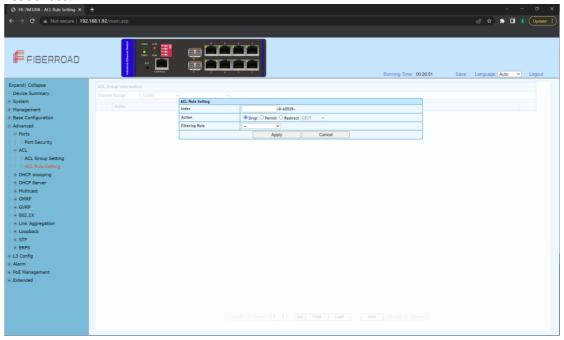
5. Delete an ACL Group Configuration: select an ACL group and click [Delete] to delete the configuration.

ACL Group Setting						
Index		<0-399	9>			
Group Name						
	🔲 All	🔲 GE/1	GE/2	GE/3	🔲 GE/4	GE/5
Binding Ports	GE/6	🔲 GE/7	🔲 GE/8	GE/9	🔲 GE/10	
	(Leave Bind	ing Ports emp	ty to disable t	the ACL Group	o.)	
		Apply	Ca	ncel		

ltem	Description	Notes
Index	 ACL group index, range <0-3999>, divided into 4 matching groups L2, L3 / L4, Source L2 / L3 / L4, Destination L2 / L3 / L4. The matching items supported by each matching group are as follows: L2: Source MAC, Destination MAC, Ethernet type, VLAN, IP protocol, range 0-999. L3 / L4: VLAN, Source IP, Destination IP, Source IP port, Destination IP port, IP protocol, range 1000- 1999. Source L2 / L3 / L4: Source IP port, IP protocol, range 2000-2999. Destination L2 / L3 / L4: Destination MAC, Ethernet type, VLAN, Destination IP, Destination IP port, IP protocol, range 3000-3999. 	
Group Name	The Group name must be unique and string format, ASCII code A-Z, a-z,0-9, _, no more than 32 characters.	
Binding Ports	An ACL is applied to a certain port or some port, then the bound port ACL becomes effective.	

4.2.2 Advanced Configuration – ACL – ACL Rule Setting

ACLs are a collection of permit and deny conditions, called rules, that provide security by blocking unauthorized users and allowing authorized users to access specific resources. ACLs can block any unwarranted attempts to reach network resources.



Configuration Step

1. Select [Advanced / ACL / ACL Rule Setting] in the navigation bar to enter the ACL Rule view interface.

2. In Select Range, select the interval of the group in the first drop-down list, and select a specific group within the group interval in second drop-down list. The next two lines show the selected group name and the port that the group binds. The table shows the ACL rules that the group has configured. Click the icon \boxplus in the filter rule bar to expand and view the specific content of the filter rule, the icon changed to be \square .

A	ACL Group Information					
Ch	100se l	Range	0-999 🗸	~		
		Index		Action	Filtering Rule	

3. Add an ACL Rule: click [Add] to enter the ACL rule setting interface.One of the filtering rules can be selected by selecting different filters via the drop-down list, and then the corresponding filtering items will be automatically generated for users to fill in. You can also remove the filter items by the [Delete] on the right side. Fill in the required configuration items, and click [Apply] to complete the configuration.

ACL Rule Setting					
Index	<0-65535>				
Action	Drop Permit Redirect GE/1				
Filtering Rule					
	Apply Cancel				

4. Modify an ACL Rule: select an ACL and click 'Modify' to enter the [ACL Rule Setting] interface. Fill in the required configuration items, and click 'Apply' to complete the configuration.

5. Delete an ACL Rule: select an ACL and click 'Delete' to delete the configuration.

ACL Rule Setting							
Index	<0-65535>						
Action	● Drop ○ Permit ○ Redirect GE/1 ✓						
Filtering Rule							
IP Protocol		Delete					
Source MAC	● Any O XXXXXXXXXXXXXXXX MASK: FFFFFFFFFF	Delete					
Destination MAC	● Any O XXXXXXXXXXX MASK: FFFFF-FFFFF	Delete					
VLAN	● Any ○ <1-4094>	Delete					
Ethernet Type	Any O Hex	Delete					
	Apply Cancel						

ltem	Description	Notes
Index	ACL Rule Index	
Action	When the message conforms to the filter rule, the action includes: Allow Discarded Redirect to the destination port	
Filtering Rule	ACL filtering rules include: Source MAC Destination MAC IP Protocol	

matched. Not matched at 0
Note: When the match mask is 1, it is
setting the mask.
The filtering items can be filtered by a range via
VLAN
Ethernet type

ltem	Description	Notes
Sources MAC	Format xxxxxx-xxxxx, support the mask, default mask ffffff-ffffff	
Destination MAC	Format xxxxxx-xxxxx, support the mask, default mask ffffff-ffffff	
IP Protocol	Only supports TCP, UDP, ICMP, IGMP currently	
Ethernet Type	Hexadecimal format, support mask, default mask FFFF	
VLAN	<1-4094>	

4.3 Advanced Configuration – DHCP snooping

4.3.1 Advanced Configuration – DHCP snooping – Global Setting

DHCP snooping is a security feature that acts like a firewall between untrusted hosts and trusted DHCP servers.

FR-7M3208 - Global Setting ×	+				
← → C ▲ Not secure 192.	.168.1.92/main.asp				🖻 🖈 🗯 🖪 📧 🗍 Update 🔅
_					
FIBERROAD	PWRS RUN EE				
- FIBERROAD	2 ar				
	CONSOLE			Running Time: 00:27:03	Save Language: Auto 🗸 Logout
Expand Collapse	DHCP snoopoing Global Setting				
- Device Summary	Admin Status	Off			
System	DHCP option 82	Off			
Management					
Base Configuration			Apply		
😑 Advanced					
😑 Ports					
-Port Security					
- ACL					
ACL Group Setting					
ACL Rule Setting					
DHCP snooping					
-Global Setting					
- Port Setting					
-Binding Table					
DHCP Server					
Multicast					
GMRP					
GVRP					
0-802.1X					
Link Aggregation					
Loopback STP					
ERPS L3 Config					
Alarm					
PoE Management					
Extended					
Extended					

Configuration Steps

1. Select [Advanced / DHCP Snooping / Global Setting] in the navigation bar to enter the [Global Setting] interface of DHCP snooping.

2. The global configuration information can be viewed in of DHCP snooping [Global Setting] interface.

3. To modify the global configuration of DHCP snooping in the DHCP snooping global configuration box, click [Apply].

DHCP snoopoing Global Setting	
Admin Status	Off •
DHCP option 82	Off
	Apply

ltem	Description	Notes
Admin Status	ON: Enable DHCP Snooping Global	Default:
	OFF: Disable DHCP Snooping Global	OFF
DHCP option 82	ON: Enable DHCP Snooping Global	Default:
	OFF: Disable DHCP Snooping Global	OFF

4.3.2 Advanced Configuration – DHCP snooping – Port Setting

S FR-7M3208 - Port Setting ×	+	Ū			v – ø :
← → C ▲ Not secure 19	92.168.1.92/main.asp				🖻 🖈 🗈 🗈 Update
FIBERROAD	Manual Diverse Taxas			Run	ning Time: 00.27:17 Save Language: <mark>Auto →</mark> Logout
Expand Collapse	Port	Trust	Circuit ID	Remote ID	Setting
Device Summary	GE/1				
System	GE/2	No			Modify
Management	GE/3	Port	GE/1 ~		Modify
Base Configuration		Trust	No 🗸		
Advanced	GE/4	No Circuit ID		(Any UTF-8 String Except Spaces, MAX: 32 Bytes)	
😑-Ports	GE/5	No Remote ID		(Any UTF-8 String Except Spaces, MAX: 32 Bytes)	
-Port Security	GE/6	No	Apply	Cancel	Modify
ACL	0E/7	No			Modify
ACL Group Setting	GE/8				
ACL Rule Setting	GE/9				
Global Setting	GE/10				
-Port Setting					
Binding Table					
DHCP Server					
Multicast					
. GMRP					
GVRP					
€-802.1X					
Link Aggregation					
Loopback					
STP					
ERPS					
L3 Config					
Alarm					
PoE Management					
Extended					

Configuration Steps

1. Select [Advanced / DHCP Snooping / Port Setting] in the navigation bar to enter the DHCP snooping [Port Setting] interface.

2. The port configuration can be viewed in the DHCP snooping [Port Setting] interface.

3. To modify the DHCP snooping configuration for a port, click the [modify] to enter the port configuration interface, as shown in figure 17.2.

4. Select or fill in the configuration items that need to be modified, and click [Apply] to make effective. There will be prompts if the configuration items are incorrectly filled.

ltem	Description	Notes
Port	The name of information	
Trust	Yes: Set as trust port	
	No: Set as untrust port	
Circuit ID	Default by global agent circuit ID	
Remote ID	Default by global agent remote ID	



4.3.3 Advanced Configuration – DHCP snooping – Binding Table

Configuration Steps

1.Select [Advanced / DHCP Snooping / Binding Table] in the navigation bar to enter the DHCP snooping [Binding Table] interface.

2.All bind list information can be viewed in the DHCP snooping [Binding Table] interface.

3.Click [Refresh] to update all DHCP snooping bind list information.

4.4 Advanced Configuration – DHCP Server

4.4.1 Advanced Configuration – DHCP Server – Global Setting

A DHCP Server is a network server that automatically provides and assigns IP address, default gateways and other network parameters to client devices. It relies on the standard protocol know as Dynamic Host configuration protocol or DHCP to respond to broadcast queries by clients.

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Expand Collapse	DHCP server Global Setting				
- Device Summary	Admin Status	Disabled	~		
System	Lease Times(unit:minutes)	30	<30-525600> Default:30minutes		
Management					
Base Configuration			Apply		
Advanced	IP Interfaces	Stat		Setting	
⊜-Ports	ip Interfaces	Disa		Modify	
Port Security	ip0	Disa	bled	Modify	
ACL ACL Group Setting					
ACL Group Setting					
DHCP snooping					
Global Setting					
-Port Setting					
Binding Table					
B-DHCP Server					
-Global Setting					
-IP Address Pool					
IP Address Lease Informat					
Multicast					
GMRP					
GVRP					
+-802.1X					
Link Aggregation					
E-Loopback					
STP ERPS					
L3 Config					
Alarm					
PoE Management					
Extended					

Configuration Steps

1.Select [Advanced / DHCP Server / Global] in the navigation bar to enter the DHCP Server[Global Setting] interface.

2.The DHCP server global setting admin status can be enabled/disable , and enter the lease times.

Remarks: 1. This DHCP-assigned IP address is not permanent and expires in about 24 hours.

3, Click [Modify] to modify IP interface individually.

Setting		
IP Interfaces	ip0	~
Status	Disabled	~
	Apply	Cancel

ltem	Description	Notes
Admin Status	Enabled / Disabled DHCP server global setting	Default: Disabled
Lease time	<30-525600>	Default:30minutes
Status	Enabled / Disabled IP interface individually	Default:30minutes

4.4.2 Advanced Configuration – DHCP Server – IP Address Pool

Each DHCP address pool has a group of assignable IP addresses and network configuration parameters. The DHCP server selects IP addresses and other parameters from the address pool and assigns them to the DHCP clients.

FR-7M3208 - IP Address Pool ×							🕈 🛋 🗈 🗍 Update
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pand Collapse	Dalay Beel Name IB Islands	ce Start IP Address End IP Ad	Musee Rubert Mark Lance 7	In a s (minutes) Default Cat	DNC Comer Con	and any DNC Conver	Statis ID Address
Device Summary							
System		Setting					
Management		Pool Name					
Base Configuration		IP Interface	V				
Advanced		Start IP Address	IPv4(A.B.C.D	0			
⊜-Ports		End IP Address	IPv4(A.B.C.D	0			
-Port Security		Subnet Mask	IPv4(A.B.C.D	0			
e ACL		Lease Times	● No ○ Yes +30-52	25600+minutes			
ACL Group Setting		Default Gateway	● No ○ Yes	IPv4(A.B.C.D)			
-ACL Rule Setting		DNS Server	No O Yes	IPv4(A.B.C.D)			
DHCP snooping		Secondary DNS Server	• No O Yes	IPv4(A.B.C.D)			
-Global Setting		Static IP Address	Add				
-Port Setting		alatic IP Address		-			
Binding Table			Apply Cancel				
G DHCP Server							
-IP Address Pool							
IP Address Pool							
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e GMRP							
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€ 802.1X							
Link Aggregation							
Loopback							
STP							
ERPS							
L3 Config							
Alarm							
PoE Management							
Extended -							

Configuration Steps

1.Select [Advanced / DHCP Server / IP Address Pool] in the navigation bar to enter the DHCP Server[IP Address Pool] interface.

2. All IP Address Pool information can be viewed in the DHCP Server [IP Address Pool] interface.

3, Click [Add] to add IP address pool individually. Click [Apply] to complete the configuration.

ltem	Description	Notes
Pool Name	The name information of IP address pool	Default: None
IP Interface	Select a needed IP interface	Default: None
Start IP Address	Start IP Address in the IP address pool	Default: None
End IP Address	End IP Address in the IP address pool	Default: None
Subnet Mask	Subnet Mask of IP address	Default: None
Lease Times	No	Default: None
	Yes: <30-525600> minutes	
Default Gateway	No	Default: None
	Yes IPv4(A.B.C.D)	
DNS Server	No	Default: None
	Yes IPv4(A.B.C.D)	
Secondary DNS	No	Default: None
Server	Yes IPv4(A.B.C.D)	
Static IP Address	Add Static IP Address as needed	Default: None

4.4.3 Advanced Configuration – DHCP Server – IP Address Lease Information

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Device Summary i:: System i:: System i:: Base Configuration i:: Advanced i:: Port Security i:: ACL Group Setting i:: ACL Group Setting	Logout
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ACL ACL ACL Group Setting ACL Group Setting ACL Rule Setting ACL Stronging	
ACL Group Setting	
ACL Rule Setting BHCP snooping	
© DHCP snooping	
Port Setting	
-Binding Table	
DHCP Server	
Global Setting	
-IP Address Pool	
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* STP	
* ERPS	
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Alarm Prev Next 1 / 1 Go First Last Refresh	
(#) PoE Management	
🛞 Extended 🚽	

Configuration Steps

1.Select [Advanced / DHCP Server / IP Address Lease Information] in the navigation bar to enter the DHCP Server [IP Address Lease Information] interface.

2. All IP Address Lease Information can be viewed in the DHCP Server [IP Address Lease Information] interface.

3, Click [Refresh] to refresh the list of the information.

4.5 Advanced Configuration – Multicast

4.5.1 Advanced Configuration – Multicast – Manual Address Setting

Multicast is the delivery of information to a group of destinations simultaneously, using the most efficient strategy to deliver messages over each link of the network only once, and create copies only when the links to the destinations split.

FR-7M3208 - Manual Address ×	+										
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		MAC Address Setting	-		XXXXXXX-X3	00000					
Management		VLAN									
Base Configuration		VLAN			<1-4094>						
Advanced			🗆 All	GE/1	🗆 GE/2	🗆 GE/3					
⊖-Ports		Ports	🗆 GE/4	GE/5	GE/6	GE/7					
Port Security			GE/8	GE/9	GE/10						
⊜-ACL			Apply	Cancel							
ACL Group Setting											
OHCP snooping											
Global Setting											
-Port Setting											
-Binding Table											
DHCP Server											
-Global Setting											
-IP Address Pool											
IP Address Lease Informat											
Multicast											
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Link Aggregation											
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Configuration Steps

1.Select [Advanced / Multicast /Manual Address Setting] in the navigation bar to enter the Multicast [Manual Address Setting] interface.

2. All manual address can be viewed in the Multicast [Manual Address Setting] interface.

3, Click [Add] to manual add MAC address and VLAN for corresponding ports.4, Click [Apply] to complete the configurations

4.5.2 Advanced Configuration – Multicast – IGMP snooping Global Setting IGMP snooping is the process of listening to Internet Group Management Protocol(IGMP) network traffic to control delivery of IP multicasts.

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 System 	Binding VLAN	1						
Management	Add or Remove VLAN	Add O Delet	te	Example:1-10,13,15-4094				
Base Configuration Advanced	Router Port Aging Time(unit:second)	105	<30-300>second					
Advanced Ports	Host Port Aging Time(unit:second)	260	<60-600>second					
Port Security			Analy					
ACL			Apply					
ACL Group Setting								
ACL Rule Setting								
DHCP snooping								
Global Setting								
Port Setting								
Binding Table								
DHCP Server								
-Global Setting								
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Global Setting								
-VLAN Setting								
- IP Groups								
MAC Groups								
-Multicast Table								
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Configuration Steps

1. Select [Advanced / Multicast / IGMP snooping / Global Setting] in the navigation bar to enter the [Global Setting].

2. You can view the global configuration of IGMP snooping on the IGMP snooping global interface.

3. If you need to modify the global configuration of IGMP snooping, you can modify the corresponding configuration in the configuration box, and then click [Apply].

ltem	Description	Notes
Admin Status	Enabled: Enable the IGMP snooping function	Default:
Aumin Status	Disabled: Disable IGMP snooping function	Disabled
Blinding VLAN	List of VLANs to be bound	
	Select the operation for the VLAN and enter the	
	list of VLANs to add or remove:	
Add or Remove	Add: Add a VLAN. The format is as follows: 1-	
VLAN	10,13,15-4094;	
	Delete : Delete the VLAN. The format is as	
	follows: 1-10,13,15-4094.	
Route Port	Valid aging time of routed ports, range 30-300.	
Aging Time	The default is 105. The unit is seconds.	
Host Port Aging	Effective host port aging time, range 60-600. The	Unit:
Time	default is 260.	Second

4.5.3 Advanced Configuration – Multicast – IGMP snooping VLAN setting

To run the IGMP Snooping querier on a VLAN, you have to enable it globally and on the VLAN. To enable IGMP snooping on a specific VLAN, use the IP IGMP snooping

VLAN enable command in switch configuration mode.

FR-7M3208 - VLAN Setting ×								· - a ·
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Configuration Steps

1. Select [Advanced / IGMP Snooping / VLAN Settings] to enter the VLAN Settings

VLAN	Router Ports	Fast Leave	Querier	Querier Interval(s)	Querier Source IP Address	Setting
1	Dynamic	Disabled	Disabled			Modify
			Prev Ne:	kt 1 1 Go Home	Tail Bulk Configuration	

2. The IGMP snooping [VLAN Settings] interface displays all the VLAN configuration information of IGMP Snooping.

3. Modify individual bound VLAN configuration information. After entering the [VLAN Settings] interface, click the [Modify] to enter the modification interface, as shown in Figure 12.2. Enter valid configuration parameters and click [Apply] to submit the modification. Click [Cancel] to abandon the modification.

VLAN Setting	
VLAN	1 <1-4094>
Router Port Mode	Dynamic •
Fast Leave	Disabled •
Querier	Disabled •
Querier Interval	60 s <30-120>s
Querier Source IP Address	0.0.0.0 A.B.C.D
	Apply Cancel

4. Bulk VLAN configuration information in batches. After entering the [VLAN Setting], click the [Bulk Configuration] at the bottom of the page to enter the [VLAN Bulk Configuration], as shown in Figure 12.3. Enter valid configuration parameters and click [Apply] to submit the modification. Click [Cancel] to abandon the modification.

VLAN Bulk Configuration	
VLAN List	Example:1-10,13,15-4094
Router Port Mode	Dynamic •
Fast Leave	Disabled •
Querier	Disabled •
	Apply Cancel

ltem	Description	Notes
VLAN	VLAN being configured	
RouterPort Mode	 Select the mode of the routed port in this VLAN. Use the drop-down box to modify it. Dynamic Static - If you choose the static routing port mode, you still need to select specific routing ports. It can be selected with the check button. 	
Fast Leave Mode	Select whether to enable the quick leave mode under this VLAN. Use the drop-down box to modify it. Disabled Enabled	
Querier	Select whether to enable the querier function in this VLAN. Use the drop-down box to modify it. Disabled Enable - If the querier is enabled, you need to set the corresponding querier interval and query source IP address.	
Query Interval	The query interval of the querier is 30-120 seconds.	
Queryer Source IP Address	Set the source IP address of the query message sent by the querier. The valid unicast address is "192.168.1.11". "0.0.0.0" is also available	

4.5.4 Advanced Configuration – Multicast – IGMP snooping IP Groups

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* GVRP * 802.1X Refresh									
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	E Link Aggregation								

Configuration Steps

Select [Advanced / IGMP snooping / IP Groups] in the navigation bar to enter the

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IP Group interface.

The IGMP snooping [IP group] interface displays the IP group information maintained by IGMP Snooping and can be refreshed by clicking the [Refresh].

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Expand Collapse	VLAN		MAC Address					Ports				
Device Summary												
System												
Management												
Base Configuration												
Advanced												
-Ports												
Port Security												
⊫-ACL												
ACL Group Setting												
ACL Rule Setting												
DHCP snooping												
-Global Setting												
-Port Setting												
Binding Table												
DHCP Server												
-Global Setting												
IP Address Pool												
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-Manual Address Setting												
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-Global Setting												
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Link Aggregation												

4.5.5 Advanced Configuration – Multicast – IGMP snooping MAC Groups

Configuration Steps

1. Select [Advanced / IGMP Snooping / MAC Groups] in the navigation bar to enter the MAC Group interface

2. The IGMP snooping [MAC Group] interface displays the MAC group information maintained by IGMP Snooping. Click the Refresh button to refresh.

4.5.6 Advanced Configuration – Multicast – IGMP snooping Multicast Table

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IP Address Pool						
- IP Address Lease Informat						
Multicast						
-Manual Address Setting						
IGMP snooping						
-Global Setting						
-VLAN Setting						
-IP Groups						
MAC Groups						
-Multicast Table						
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e-802.1X						
Link Aggregation						

Configuration Steps

1. Select [Advanced / IGMP Snooping / Multicast Table] in the navigation bar to enter the Multicast Table interface

2. The IGMP snooping [Multicast Table] interface displays the Multicast Table information maintained by IGMP Snooping. Click the Refresh button to refresh.

4.6 Advanced Configuration – GMRP

4.6.1 Advanced Configuration – GMRP– GMRP Setting

GARP Multicast Registration Protocol (GMRP) is a Generic Attribute Registration Protocol (GARP) application that provides a constrained multicast flooding facility similar to IGMP snooping. GMRP and GARP are industry-standard protocols defined by the IEEE 802.1

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Expand Collapse	GMRP Global Setting				
-Device Summary	Admin Status	Disabled V			
 System Management 	Hold Time	100 <100-32760>milliseconds (hold time * 2 <= join time) Default:100 milliseconds			
Base Configuration	Join Time	200 <100-32760>milliseconds (join time * 2 <= leave time) Default:200 milliseconds			
Advanced	Leave Time	600 <100-32760>milliseconds (leave time <= leave all time) Default:600 milliseconds			
-Ports	Leave All Time	10000 <100-32760>milliseconds Default:10000 milliseconds			
ACL DHCP snooping		Apply			
DHCP Server	Port	GMRP Port Mode	Setting		
Multicast	GE/1	Forbidden	Modify		
GMRP	GE/2	Forbidden	Modify		
GMRP Setting	GE/3	Forbidden	Modify		
902.1X	GE/4	Forbidden	Modify		
E-Link Aggregation	GE/5	Forbidden	Modify		
-Loopback	GE/6	Forbidden	Modify		
- STP	GE/7	Forbidden	Modify		
ERPS	GE/8	Forbidden	Modify		
L3 Config Alarm	GE/9	Forbidden	Modify		
PoE Management	GE/10	Forbidden	Modify		
* Extended					

Configuration steps

1. Select [GMRP / GMRP Setting] in the navigation bar to enter the GMRP configuration interface.

2. You can view the global configuration of GMRP in the [GMRP Global Settings] interface

3. If you need to modify the global configuration of GMRP, modify the corresponding configuration in the GMRP global configuration box, and then click <Apply>.

ltem	Description	Notes
Admin Status	GMRP global enable switch.	Default:
	Enabled: Enable GMRP function;	Disabled
	Disabled: Disable the GMRP function.	
Hold Time	Hold timer period, the range is 100-32760 (ms),	≤2
	the default value is 100ms;	
Join Time	Join timer period, the range is 100-32760 (ms),	≤2
	the default value is 200ms;	
Leave Time	Leave timer period, the range is 100-32760 (ms),	Leave Time

WebGUI User Manual

	the default value is 600ms	≤ Leave All Time
Leave All Time	Leave all timer period, the range is 100-32760 (ms), the default value is 10000ms;	Leave Time ≤ Leave All Time

GMRP Port Mode Configurations,

1.If you need to modify the Port Mode of GMRP, Click [modify] to select GMRP Mode as Normal , Fixed, Forbidden

GMRP Port Mode			
Port	GE/1 V		
GMRP Mode	O Normal O Fixed O Forbidden		
Apply Cancel			

ltem	Description	Notes
Port	Port name of information	
GMRP Mode	Normal, Fixed, Forbidden	Default: Forbidden

4.7 Advanced Configuration – GVRP

4.7.1 Advanced Configuration – GVRP – GVRP Setting

Same as GMRP, GVRP (GARP VLAN Registration Protocol) is a VLAN registration protocol based on GARP (Generic Attribute Registration Protocol), which is used to register and deregister VLAN attributes

) Default:100 milliseconds)) Default:200 milliseconds ma) Default:600 milliseconds	ar and a constant of the second secon	
PERSON OVER tests Ended Collapse Expand Collapse OVER tests Exemption) Default:100 milliseconds)) Default:200 milliseconds ma) Default:600 milliseconds	ar and a constant of the second secon	Expand Collapse GVRP Glob
FIGERRAD Or Weight of the second) Default:100 milliseconds)) Default:200 milliseconds ma) Default:400 milliseconds	ar and a constant of the second secon	Expand Collapse GVRP Glob
Perces Summary Armin Status Disabled v 4 System Armin Status Disabled v 4 System Hold Time 100 00-22500-milliseconds flottime * 2 = vipit time) Defaultit00 milliseconds 4 Banagement Jaim Time 200 00-22500-milliseconds flottime * 2 = vipit time) Defaultit00 milliseconds 4 Banagement Jaim Time 000 00-22500-milliseconds flottime the avail time) Default 500 milliseconds 4 Advanced Leave Time 000 00-22500-milliseconds flottime the avail time) Default 500 milliseconds 4 Advanced Leave Time 000 00-22500-milliseconds flottime the avail time) Default 500 milliseconds • Ports Leave Time 000 00-22500-milliseconds flottime the avail time) Default 500 milliseconds • DHCP Senser Port VPP Mede Setting • Mulcitat 62/1 Farbidean Modig • Mulcitat 62/2 Farbidean Modig <th>a) Default-200 milliseconds ne) Default-600 milliseconds</th> <th>Disabled v 100</th> <th></th>	a) Default-200 milliseconds ne) Default-600 milliseconds	Disabled v 100	
Pytem Initialization Initialization Initialization Management 100 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:100 milliseconds Jan Time 200 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:100 milliseconds Advanced 200 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:200 milliseconds Advanced Leave all Time 000 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:300 milliseconds * Advanced Leave all Time 000 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:300 milliseconds * Advanced Leave all Time 000 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:300 milliseconds * Advanced Leave all Time 000 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:300 milliseconds * Advanced Leave all Time 000 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:300 milliseconds * Advanced Fortiden 1000 100-27260milliseconds (loid time * 2 ~ ipin time) Dafault:400 milliseconds * Advanced Fortiden ViPP Art Mode Setting Setting * Advanced Fortiden Fortiden Modory Modory	a) Default-200 milliseconds ne) Default-600 milliseconds	100	Device Summary
Management India Mark Out of 000-27240milliseconds (pinn mir 2 * o pin mir (pis dual-titto milliseconds) BAR Join Time 200 040-27240milliseconds (pinn mir 2 * o pin mir (pis dual-titto milliseconds) Advanced Join Time 200 040-27240milliseconds (pinn mir 2 * o pin mir (pis dual-titto) pinnteconds) Advanced Lave Time 000 040-27240milliseconds (pinn mir 2 * o pin mir (pis dual-titto) pinnteconds) Advanced Molticands 000 040-27240milliseconds (pinnter 2 * o pin mir (pis dual-titto) pinnteconds) Advanced Molticands 000 040-27240milliseconds (pinnter 2 * o pin mir (pis dual-titto) pinnteconds) Advanced Lave Time 000 040-27240milliseconds (pinnter 2 * o pin mir (pis dual-titto) pinnteconds) Advanced Lave Time 000 040-27240milliseconds (pinnter 2 * o pin mir (pis dual-titto) pinnteconds) Advanced Lave Time 000 040-27240milliseconds (pinnter 2 * o pin mir (pis dual-titto) pinnteconds) Advanced Molticands Fordiden Molticands Molticands Advanced Fordiden Molticands Molticands Molticands Advanced Fordiden Fordid	a) Default-200 milliseconds ne) Default-600 milliseconds		- Autom Star
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Advanced Leve Nine Op/O 000 000 22740 milliseconds (leave time + leave all time) UnitlateCond F Ports 1000 000 000 22740 milliseconds (leave time + leave all time) UnitlateCond F ACL 1000 000 000 22740 milliseconds (leave time + leave all time) UnitlateConds F ACL F F F Address Address F OtAPS encoding F F F Address Setting F OtAPS encoding F F F Address Setting F OtAPS encoding F F F F Modig F OtAPS encoding F F F Modig Modig F OtAPS encoding F F F F Modig Modig F OtAPS encoding F F F F F Modig Modig F OtAPS encoding F F F F Modig Modig F OtAPS encoding F F F F F <td></td> <td>200</td> <td></td>		200	
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# ACL Topy # DHCP Server Part OXRP Part Made Sating # Multicast EC/1 Fordadan Mody # Multicast EC/2 Fordadan Mody # GNRP EC/2 Fordadan Mody # GVRP EC/2 Fordadan Mody # GNRP EC/2 Fordadan Mody # Stop Ed/2 EC/2 Fordadan Mody # Link Agregation EC/2 Fordadan Mody # Stop Ed/2 EC/2 Fordadan Mody # Stop Ed/2 EC/2 Fordadan Mody # Stop Ed/2 EC/2 Fordadan Mody <td>S</td> <td>10000</td> <td></td>	S	10000	
PHCP snooping Part OVRP Part Mode Setting # DHCP Server Part OVRP Part Mode Setting # DHCP Server Ec/1 Forbiden Mode # OWRP Ec/2 Forbiden Mode # OWRP Setting Ec/2 Forbiden Mode # OWRP Setting Ec/2 Forbiden Mode # OWRP Setting Ec/3 Forbiden Mode # OWRP Setting Ec/3 Forbiden Mode # Sopacity Ec/4 Forbiden Mode # Lopback Ec/7 Forbiden Mode # STP Ec/8 Forbiden Mode # Li Sonfig Ec/9 Forbiden Mode # Li Sonfig Ec/9 Forbiden Mode # Li Sonfig Ec/9 Forbiden Mode			
Hulticate BE/I Forbiden Modig GMRP EZ.2 Forbiden Modig GMRP Setting EZ.2 Forbiden Modig BCRP Setting EZ.4 Forbiden Modig BCRP Setting EZ.4 Forbiden Modig BCRP Setting EZ.4 Forbiden Modig BCRA Forbiden Forbiden Modig Modig BCLA Setting EE/4 Forbiden Modig BCLA Setting EE/4 Forbiden Modig SD2.1X EE/6 Forbiden Modig SD2.1X EE/6 Forbiden Modig SD2.1X EE/6 Forbiden Modig SD2.1X EE/6 Forbiden Modig STP EE/6 Forbiden Modig STP EE/6 Forbiden Modig L Gonfg E/7 Forbiden Modig L Gonfg E/7 Forbiden Modig L Gonfg E/7	Apply		
OdRP Odd Odd G/RP Setting 6/2 Fundstan Moday G/RP Setting 6/2 Fundstan Moday G/RP Setting 6/2 Fundstan Moday 6/2 Fundstan Moday Moday 12 Confly	Setting	GVRP Port Mode	DHCP Server Port
GMRP Setting Grad Folder Index GVAP 6/3 Folder Modify GVAP 6/3 Folder Modify GVAP 6/2 Folder Modify 6/2.1X 6/5 Folder Modify 1: Unk Aggregation 6/6 Folder Modify 1: Lopback 6/7 Folder Modify 1: STP 6/8 Folder Modify 1: Grafie 6/7 Folder Modify	Modify	Forbidden	Multicast GE/1
OVRP OV/S Partician Modely - OVRP 65/4 Farbiden Modely - OVRP 65/4 Farbiden Modely - OVRP 65/5 Farbiden Modely - OVRP 65/6 Farbiden Modely - OVRP 65/6 Farbiden Modely - OVRP 65/7 Farbiden Modely - Overp 65/7 Farbiden Modely - STP 65/8 Farbiden Modely - EBPS 65/9 Farbiden Modely - L3 Config 67/9 Farbiden Modely	Modify	Forbidden	06/2
BC/A Periodan Mody # 802.1X BC/A Periodan Mody # Link Agregation BC/A Periodan Mody # STP BC/A Periodan Mody # ESP BC/A Periodan Mody # Link Agregation BC/A Periodan Mody	Modify	Forbidden	
BQ2_1X BC/S Fortiden Mody # Link Agregation GE/A Fortiden Mody # Link Agregation GE/A Fortiden Mody # STP GE/B Fortiden Mody # ERPS GE/P Fortiden Mody # Link Agregation Mody Mody # Link Agregation Mody Mody # Link Agregation Fortiden Mody	Modify	Forbidden	
# Link Aggregation 0f/k Forbiden Modely # Loopback 6E/7 Forbiden Modely # STPP 0E/8 Forbiden Modely # ERPS 0E/n Forbiden Modely LO Config 0E/n Forbiden Modely Aam Modely Modely Modely	Modify	Forbidden	05/5
* Loopback 6E/7 Forbiden Modely * STP 6E/8 Forbiden Modely * ERPS 0E/9 Forbiden Modely 12 Config 0E/9 Forbiden Modely Alarm Modely Modely Modely	Modify	Forbidden	
* STP 6E/8 Furbiden Modely * EPS 0E/N Furbiden Modely L3 Config 6E/R Furbiden Modely	Modify	Forbidden	
L3 Config 0£/10 Forbiden Modify	Modify	Forbidden	
Alam To use in Transfer in the second se	Modify	Forbidden	ERPS GE/9
Alam			
PoE Management			Alarm
+ Extended			Extended

Configuration Steps

1.Select [GVRP/GVRP configuration] from the navigation bar to enter the GVRP configuration interface.

2.The global configuration of GVRP can be viewed in the [GVRP global Settings] interface,

3.To modify the GVRP global configuration, modify the corresponding configuration in the GVRP global configuration box, and then click < apply >.

ltem	Description	Notes
Admin Status	GVRP global enable switch. Enabled: Enable GVRP function; Disabled: Disable the GVRP function.	DEFAULT: DISABLED
Hold Time	Hold timer period, the range is 100-32760 (ms), the default value is 100ms;	≤2
Join Time	Join timer period, the range is 100-32760 (ms), the default value is 200ms;	≤2
Leave Time	Leave timer period, the range is 100-32760 (ms), the default value is 600ms	LEAVE TIME ≤ LEAVE ALL TIME
Leave All Time	Leave all timer period, the range is 100- 32760 (ms), the default value is 10000ms;	LEAVE TIME ≤ LEAVE ALL TIME

GVRP Port Mode Configurations,

1.If you need to modify the Port Mode of GVRP, Click [modify] to select GVRP Mode as Normal , Fixed, Forbidden

GVRP Port Mode		
Port	GE/1 V	
GVRP Mode ONormal OFixed OForbidden		
	Apply Cancel	

Item Description		Notes
Port	Port name of information	
GVRP Mode	Normal, Fixed, Forbidden	Default: Forbidden

4.8 Advanced Configuration – 802.1X

4.8.1 Advanced Configuration – 802.1X – Authentication Server

IEEE 802.1X is an IEEE Standard for port-based Network Access Control (PNAC). It is part of the IEEE 802.1 group of networking protocols. It provides an authentication mechanism to devices wishing to attach to a LAN or WLAN.



Configuration Steps

1. Select [Advanced / 802.1X / Authentication Server] in the navigation bar to enter Radius Authentication Server Configuration.

2. Check the configuration information in the interface

3. To apply the Authentication Server configuration, click [Apply] in the Authentication Server configuration box.

ltem	Description	Notes
Host	The IP of Radius Authenticated Server, IPv4 and	
	Dotted decimal format	
Port Number	The port of Radius Authenticated Server,	Default:1812
	range<1-65535>, default with 1812	
Shared Key	Must be consistent with Radius server,	
	otherwise it can not pass authentication.	
	String format, only contain letters, numbers,	
	underscores, and the length cannot be more	
	than 20 byte	

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xpand Collapse	802.1x Global Configuration			
Device Summary	Admin Status	Disabled V		
System	Reauthentication	Disabled ~		
Management	Quiet Function	Disabled ~		
Base Configuration	Authentication Method	● EAP ○ CHAP ○ P/	LP	
Advanced	Tx Period(unit:Second)	30	<1-120> Default:30	
Ports	Supplicant Timeout(unit:Second)	30	<1-120> Default:30	
ACL DHCP snooping	Server Timeout(unit:Second)	30	<1-120> Default:30	
DHCP Server	ReAuthentication Period(unit:Second)	3600	<60-7200> Default:3600	
Multicast	Quiet Period(unit:Second)	60	10-3600> Default:60	
⊜-GMRP	duler Period(dnit.Second)	00	10-3600 Default.60	
GMRP Setting			Apply	
GVRP				
GVRP Setting				
⊜-802.1X				
-Authentication Server				
Global Setting				
-Port Configurations				
User Authentication Info				
Link Aggregation				
Loopback STP				
ERPS				
L3 Config				
Alarm				
PoE Management				
Extended				

4.8.2 Advanced Configuration – 802.1X – Global Setting

Configuration Steps

1. Select [Advanced / 802.1X / Global Setting] in the navigation bar to enter the [Global Setting] interface.

2. The global configuration information can be viewed in the interface.

3. To modify the global configuration in the Global Configuration box, click [Apply].

ltem	Description	Notes	
Admin Status	Disabled: Disabled Global 802.1X	Default:	
	Enabled: Enabled Global 802.1X	Disabled	
Reatuthentication	Disabled: Disabled re-authentication	Default:	
Reacucinencication	Enabled: Enabled re-authentication	Disabled	
Quiet Eurotien	Disabled: Disabled quiet function	Default:	
Quiet Function	Enabled: Enabled quiet function	Disabled	
Authentication Method	EAP/PAP/CHAP		
Tx Period (Unit:Second)	1-120	Default: 30	
Supplicant Timeout	1-120	Default: 30	
(Unit: Second)	1-120	Delault. 50	
Server Timeout	1-120	Default: 30	
(Unit:Second)	1-120	Delault. 50	
ReAuthentication Period	60-7200	Default:	
(Unit:Second)	00-7200	3600	
Quiet Period	10-3600	Default: 60	
(Unit:Second)	10-3000	Delault. 00	

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pand Collapse	Port	Admin Status	Authentication Control	Authentication Mode	Max Host Number	Setting
Vevice Summary	GE/1	Disabled	Auto	PortBased	8	Modify
System	GE/2	Disabled	Auto	PortBased	8	Modify
danagement Base Configuration	GE/3	Disabled	Auto	PortBased	8	Modify
Base Configuration Advanced	GE/4	Disabled	Auto	PortBased	8	Modify
Ports	GE/5	Disabled	Auto	PortBased	8	Modify
ACL	GE/6	Disabled	Auto	PortBased	8	Modify
DHCP snooping	GE/7	Disabled	Auto	PortBased	8	Modify
DHCP Server	GE/8	Disabled	Auto	PortBased	8	Modify
Multicast	GE/9	Disabled	Auto	PortBased	8	Modify
GMRP	GE/10	Disabled	Auto	PortBased	8	Modify
GMRP Setting	04/10	0.00000	Hato	10100000		mouly
© GVRP						
GVRP Setting						
802.1X Authentication Server						
Global Setting						
- Global Setting						
User Authentication Info						
Link Aggregation						
Loopback						
# STP						
ERPS						
.3 Config						
Alarm PoE Management						

4.8.3 Advanced Configuration – 802.1X – Port Configurations

Configuration Steps

1. Select [Advanced / 802.1X / Port Configurations] in the navigation bar to enter the [Port Configurations] interface.

 On the [Port Configurations] interface, you can view the configuration information of each port, the current 802.1X configuration information of each port is displayed.
 To modify the configuration of a port, simply click the [Edit] in corresponding entry to enter modification interface, as shown in Figure 10.4. Modify the corresponding configuration item, click the [Apply] to complete the modification, and click the [Cancel] to cancel the modification.

802.1X Port Configurations	
Port	GE/5
Admin Status	Disabled •
Authentication Control	Auto
Authentication Mode	PortBased •
Max Host Number	8 <1-8> Default:8
	Apply Cancel

Remarks: When the 802.1X port is configured to authentication mode, all authenticated users will go offline and re-authentication is required to access the network.

ltem	Description	Notes				
Port	Selected port configurations					
Admin Status	Enabled: Enabled port 802.1X	Default:				
Admin Status	Disabled: Disabled port 802.1X	Disabled				
	Auto: You cannot access the network before					
	authentication. You can access the network					
Authentication	after passing the authentication.					
Control	Forced-Authentication: Always have access to					
	the network					
	Forced-Unauthentication: Always cannot					

	access the network						
	PortBased: After a user is authenticated, all						
Authentication	users can access the network.						
Mode	MacBased: All users need to be authenticated						
	individually to access the network.						
Max Hest	There is maximum number of authenticated						
Max Host	hosts supported by the port. Authentication	Default: 8					
Number	will fail if this number is exceeded.						

4.8.4 Advanced Configuration – 802.1X – User Authentication Info

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FIBERROAD		Save Language: Auto 🗸 Logout
Expand Collapse	Expand Collapse	
Device Summary	← PertGE/I	
🔋 System	PortGE/2	
Management		
Base Configuration	PortGE/3	
Advanced	- PortGE/4	
- ACL	Port.0E/5	
DHCP snooping	- PortGE/6	
DHCP Server	PortGE/7	
Multicast		
GMRP	PortGE/8	
GMRP Setting	- Port.GE/9	
GVRP GVRP Setting	- PortGE/10	
⊜-802.1X	Refresh	
-Authentication Server		
-Global Setting		
Port Configurations		
User Authentication Info		
Link Aggregation Loopback		
STP		
ERPS		
EL3 Config		
🖲 Alarm		
PoE Management		
Extended		

Configuration Steps

1. Select [Advanced / 802.1X / User Authentication Information] in the navigation bar to enter the [User Authentication Information] interface.

2. Click [Expand] in the upper left corner to expand the user authentication information for all ports, and click [Close] to close the user authentication information for all ports. Click the \boxplus icon to expand the user authentication information for the corresponding port, and click the \square icon to close the user authentication information information for the corresponding port.

3. The authentication information of the user can be viewed on this interface: user name, client MAC address, and the time the authentication passed.

4. Click [Refresh] to refresh the current user authentication information.

4.9 Advanced Configuration – Link Aggregation

4.9.1 Advanced Configuration – Link Aggregation – Global Setting

Link aggregation is a way of bundling a bunch of individual (Ethernet) links together so they act like a single logical link.

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FIBERROAD	Industrial Ethernel Same	PINC3 ALM PINC5 REM RET COMBOLE			Running Time: 00:30:59	Save Language: [Auto V] Log	jout
Expand Collapse	LACP Setting						
-Device Summary	System MAC		001893-12544D				
System	System Priority		32768 <0-65535> Default:32768				
Management	Distribution Algorith	m	Source Port Source MAC Destination MA	C Source IP C Destination IP C Source IP Port	Destination IP Port		
Base Configuration							
Advanced Ports				Apply			
# ACL	Group ID	Group Mode	Minimum Link Number	Maximum Link Number	Member Ports	Valid Port List	
DHCP snooping							
DHCP Server							
Multicast							
GMRP							
GMRP Setting							
GVRP							
GVRP Setting							
# 802.1X							
Link Aggregation							
-Global Setting							
-Port Configurations							
Aggregate Information							
Loopback STP							
# ERPS							
L3 Config							
Alarm				Add Delete			
PoE Management							
Extended							

Configuration Steps

1.Select [Advanced / Link Aggregation / Global Setting] in the navigation bar to enter the [Link Aggregation / Global Setting] interface.

2. The link aggregation global configuration can be viewed in the link aggregation global setting interface.

3.To modify the global configuration of link aggregation, modify the corresponding configuration in the LACP (Link Aggregation Control Protocol) configuration box, and then click [Apply]

4.If you want to add an aggregation group, click [set], as shown in figure 14.2. click [Apply].

ltem	Description	Notes
System MAC		
System Priority	Set the link aggregation system priority, range 0-65535, the smaller the better.	Default: 32768
Distribution Algorithm	The system supports one or more to compute the load ports according to the source port, source MAC, destination MAC, source IP, destination IP, source IP port and destination IP	
Group ID	Aggregation Group ID information	
Group Mode	Set Aggregation Group Mode Manual: Manual mode, the port of the aggregation group member is manually configured and the port LACP protocol is closed.	

	Static: Static mode, the port of the					
	aggregation group member is manually					
	configured and the port LACP protocol is on.					
Minimum Port	The active ports minimum number of					
	aggregation group configuration, ranging <0-					
	8>, and the value cannot exceed the					
	maximum number of links.					
	The active ports maximum number of					
Maximum Port	aggregation group configuration, ranging <0-					
Maximum Port	8>, and the value cannot be less than the					
	minimum number of links.					
Member Port	Member port of aggregation group					
List	configuration					

4.9.2 Advanced Configuration – Link Aggregation – Port Configuations

xpand Collapse Device Summary System Management	Port G GE/1 0	Froup ID				Running Time: 00:31:18 Save I	Language: Auto 👻 Logo
System Management	GE/1 0		Priority	Admin Key	LACP Mode	LACP Admin Status	Setting
Management		1	32768	0	Active	Disabled	Modify
	GE/2 0	1	32768	0	Active	Disabled	Modify
	GE/3 0	1	32768	0	Active	Disabled	Modify
Base Configuration Advanced	GE/4 0	1	32768	0	Active	Disabled	Modify
Ports	GE/5 0	1	32768	0	Active	Disabled	Modify
ACL	GE/6 0	1	32768	0	Active	Disabled	Modify
DHCP snooping	GE/7 0	1	32768	0	Active	Disabled	Modify
DHCP Server	GE/8 0	1	32768	0	Active	Disabled	Modify
Multicast	GE/9 0	1	32768	0	Active	Disabled	Modify
GMRP	GE/10 0	1	32768	0	Active	Disabled	Modify
GVRP GVRP GVRPSetting Gould Appropriate Gould Setting Gould							

Configuration Steps

1. Select [Advanced / Link Aggregation / Port Configurations] in the navigation bar to enter the link aggregation [Port Configurations] interface.

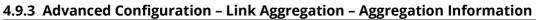
2. In the link aggregation [Port Configurations]interface, you can view the link aggregation related configuration of the port.

3. If the link aggregation configuration of the port needs to be modified, click the [Modify] to enter the port configuration interface.

4. Select or fill in the configuration items that need to be modified, and click [Apply] to make effective. If the configuration items are incorrectly filled, there will be corresponding prompts.

ltem	Description	Notes
Port	Name of port	
Group ID	The Port ID of aggregation group	

Priority	Port link aggregation priority, range <0-65535>	Default:32768
Admin Key	Enter a value to configure the LACP actor admin key that is used while port participates in dynamic aggregation selection. Rang:<0- 65535>	Default: 0
LACP Mode	 Port master-slave mode in LACP protocol Active: Active mode, the port send protocol messages automatically when LACP protocol enabled. Passive: Passive mode, the port will not send protocol messages automatically, but only send when received protocol messages. 	Default: Active
LACP Admin	Enabled: Enabled LACP on port	Default:
Status	Disabled: Disabled LACP on port	Disabled



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Expand Collapse	Expand Collapse									
-Device Summary	▲ Port:GE/I									
 System 	Port:GE/2									-
Management										-
Base Configuration	 Port:GE/3 Lacp Actor Information: 									
Advanced Ports	Lacp Actor Information:	Disabled					N/A			- 1
ACL	Priority	Jisabled 32768			Group ID		0			- 1
DHCP snooping	Operate Key	0					Active			-
DHCP Server	Selected	Unselected			Admin active mode					
Multicast	Selected	Activity	Timeout	Aggregation	Synchronization	Collect	ing Distributing	Defaulted	Expired	
.GMRP	State	Passive	LongTimeout		ALSE	FALSE		FALSE	FALSE	
GMRP Setting	Lacp Partner Information:									
GVRP	System MAC	000000-00000	0		System priority		0			-
GVRP Setting	Port name	N/A	-		Port priority 0					
B-Link Aggregation	Operate key	0								
-Global Setting		Activity	Timeout	Aggregation	synchronization	Collect	ing Distributing	Defaulted	Expired	
Port Configurations	State	Passive	LongTimeout	FALSE	ALSE	FALSE	FALSE	FALSE	FALSE	
Aggregate Information	Port:GE/4									
😑 Loopback	Port:GE/5									-
-Global Setting										
-Port Configurations	 Port:GE/6 									
STP ERPS	 Port:GE/7 									
L3 Config	Port:GE/8									
Alarm	- Port:GE/9									
PoE Management										
Extended					Refresh					

Configuration Steps

1. Select [Advanced / Link Aggregation / Aggregate Information]in the navigation bar to enter the [Link Aggregation / Aggregation Information]interface.

2. In the link aggregation [Aggregate Information] interface, all port link aggregation related information can be viewed.

3. Click [Refresh] to see the latest aggregation information for each port.

4.10 Advanced Configuration – Loopback 4.10.1 Advanced Configuration – Loopback – Global Setting

FR-7M3208 - Global Setting ×					
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FIBERROAD				Running Time: 00.31:44	Save Language: <mark>Auto ∨</mark> Logout
Expand Collapse	Loopback Global Configuration				
Device Summary	Detection Timer(unit:Second)	5	<1-32767> Default:5		
System	Resume Timer (unit: Second)	30	<10-65535> Default:30		
Management		10			
Base Configuration			Apply		
Advanced					
Ports					
+ ACL					
DHCP snooping					
DHCP Server					
Multicast					
GMRP GMRP Setting					
GVRP					
GVRP Setting					
B02.1X					
Link Aggregation					
Global Setting					
-Port Configurations					
Aggregate Information					
B Loopback					
-Global Setting					
Port Configurations					
. STP					
ERPS					
L3 Config					
Alarm					
PoE Management					
Extended					

Configuration Steps

1. Select [Advanced / Loopback / Global Setting] in the navigation bar to enter [Global Setting] interface.

2. In the global configuration interface, you can view the global configuration information.

3. To modify the global configuration, modify the corresponding configuration in the Global Configuration box and click [Apply], as shown in Figure 11.1

ltem	Description	Notes	
Detection	Loop detection packet sending interval,	Default: 5sec	
Timer	range<1-32767>	Delault. SSec	
Documo Timor	Port auto resume period, range<10-65535>,		
Resume Timer	must be less than 2x detection timer		

→ C ▲ Not secure 19	92.168.1.92/main	asp					යි 🖈 🌲 🔳 📵 Updat
FIBERROAD		PWED ALM			Runr	ing Time: 00:31:52 Save	Language: [Auto Y] Logout
pand Collapse	Port	Admin Status	Resume Mode	Execute Operate	Port Status	Setting	
Device Summary	GE/1	Disabled	Automation	Shutdown	Linkup	Modify Resume Now	
System	GE/2	Disabled	Automation	Shutdown	Linkup	Modify Resume Now	
fanagement	GE/3	Disabled	Automation	Shutdown	Linkdown	Modify Resume Now	
Sase Configuration	GE/4	Disabled	Automation	Shutdown	Linkup	Modify Resume Now	
-Ports	GE/5	Disabled	Automation	Shutdown	Linkdown	Modify Resume Now	
ACL	GE/6	Disabled	Automation	Shutdown	Linkup	Modify Resume Now	
DHCP snooping	GE/7	Disabled	Automation	Shutdown	Linkup	Modify Resume Now	
DHCP Server	GE/8	Disabled	Automation	Shutdown	Linkup	Modify Resume Now	
Multicast	GE/9	Disabled	Automation	Shutdown	Linkdown	Modify Resume Now	
GMRP		Disabled	Automation	Shutdown	Linkdown	Modify Resume Now	
GMRP Setting	GE/10	Disabled	Automation	Shutdown	Linkdown	Modify Resume Now	
GVRP							
GVRP Setting							
-802.1X							
Link Aggregation							
-Global Setting							
-Port Configurations							
-Aggregate Information Loopback							
Global Setting							
- Port Configurations							
STP							
ERPS							
3 Config							
arm							
E Management							

4.10.2 Advanced Configuration – Loopback – Port Configuration

Configuration Steps

1. Select [Advanced / Loop Detection / Port Configuration] in the navigation bar to enter the Port Configuration interface.

2. On the Port Configuration page, you can see the loop detection configuration information and running status of all the ports.

3. To modify the configuration of a port, simply click the [Edit] on the right side of the corresponding entry to enter the modification interface. Modify the corresponding configuration item, click the [Apply] to complete the modification, and click the [Cancel] to cancel the modification.

Port	Admin Status	Resume Mode	Execute Operate	Port Status	Setting
GE/1	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/2	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/3	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/4	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/5	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/6	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/7	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/8	Disabled	Atuomation	Shutdown	Linkup	Modify Resume Now
GE/9	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now
GE/10	Disabled	Atuomation	Shutdown	Linkdown	Modify Resume Now

4. After a loop occurs on a port and the port is shut down or blocked by a specified action, if you want to restore it immediately, you can click the [Restore Now] on the right side of the corresponding entry.

LoopBack Port Configurations					
Port	GE/7 •				
Admin Status	Disabled •				
Resume Mode	Atuomation •				
Execute Operate	Shutdown •				
	Apply Cancel				

ltem	Description	Notes	
Port	Selected Port		
Admin Status	Disabled: Disabled loop detection	Default:	
Admini Status	Enabled: Enabled loop detection	Disabled	
	Automatic: After the loop occurs, the port is		
	closed or blocked, and the port automatically		
Resume Mode	recovers.		
	Manual: After a loop occurs, the port is closed		
	or blocked, need to manually restore the port.		
	Shutdown: After the loop occurs, the port is		
Execute	shutdown		
Operate	Blocked: After a loop occurs, the port is		
	blocked		

4.11 Advanced Configuration – STP

4.11.1 Advanced – STP – Bridge Configuration

The Spanning Tree Protocol (STP) is responsible for identifying links in the network and shutting down the redundant ones, preventing possible network loops. In order to do so, all switches in the network exchange BPDU messages between them to agree upon the root bridge.

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			÷	Running Time: 00:32:54	Save Language:	Auto 💙	Logout
Expand Collapse	Basic Settings						
- Device Summary	Protocol Version	RSTP V					
System	Bridge Priority	32768 ~					-
Management	Forward Delay	15	<4-30·				-
Base Configuration	Max Age	20	<=====================================				-
Advanced	Maximum Hop Count	20	<5-40>				-
Ports	Transmit Hold Count	6	<-40 ²				-
ACL	Iransmit Hote Count	0	1-107				
DHCP snooping DHCP Server	Advanced Settings						
Multicast	Edge Port BPDU Filtering						
. GMRP	Edge Port BPDU Guard						-
GMRP Setting	Port Error Recovery	0					-
⊜ GVRP	Port Error Recovery Timeout	0	<30-8640>				
GVRP Setting							
+ 802.1X			Apply Refresh				
Link Aggregation							
Loopback STP							
Bridge Configuration							
-Mapping Configuration							
Priority Configuration							
CIST Port Configuration							
-Bridges Status							
-Ports Status							
Statistics							
ERPS							
+ L3 Config							
Alarm							
PoE Management							

Configuration Steps

1. Select [Advanced / STP / Bridge Configuration] in the navigation bar to enter the STP[Bridge Configuration] interface.

2.The STP Bridge Configuration can be viewed in the [Bridge Configuration] interface.3. To modify the configuration, you can enter the values that need to be configured directly in corresponding configuration item.

Item	Description	Notes
STP Mode	STP/RSTP/MSTP	
Bridge Priority	STP System priority,Range<0-61440>, the step	Default: 32768

	must be 4096	
Forward Delay	Delay when port switch between disabled / listening / learning / forwarding, Range<4-30>	Default:15sec
Max Age	The maximum survival time of the STP protocol packet received by the bridge. If no new protocol packets received at this time, the packet will be discarded. Range<6-40>	Default: 20second
Maximum Hop Count	Determines the transmission range of bpdu. The range of hops is 6-40.	Default: 20
Transmit Hold Count	Count the number of sending hops. The count range is 1-10.	Default: 6 per sec
Edge Port BPDU Filtering	BPDU filtering will prevent the switch from sending BPDUs to the host on a port with the edge port feature enabled.	Default: Disabled
Edge Port BPDU Guard	BPDU guards prevent bridging loops by enabling ports with edge port characteristics to enter the err-disable state when receiving BPDUs	
Port Error Recovery	Enable the recovery function for the port in the err-disable state. If checked, it is enabled. By default, if it is not checked, it is disabled.	
Port Error Recovery Timeout	Restart this port after timeout.	

4.11.2 Advanced-STP-Mapping Configuration

🚱 FR-7M3208 - Mapping Config 🗙 🚽				v – ø x
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FIBERROAD			Running Time: 00:34:09	Save Language: Auto 💙 Logout
Expand Collapse	Configuration Identification			
Device Summary	Configuration Name			
System	Configuration Revision	0 <0-65535>		
Management	-			
Base Configuration	MSTI Mapping			
Advanced Ports	MSTI	VLANs Mapped		
B-ACL	MSTII			
DHCP snooping				tê.
DHCP Server	MSTI2			
Multicast				
⊜-GMRP	MSTI3			<i>ti</i>
GMRP Setting	MSTI4			
GVRP	19314			
() 802.1×	MSTI5			h
Link Aggregation Loopback	MSTI6			
(e) STP				
Bridge Configuration	MSTI7			A
-Mapping Configuration		Apply Refresh		
Priority Configuration CIST Port Configuration		Pppy Tomost		
-MSTI Port Configuration				
Bridges Status				
-Ports Status				
Statistics				
. ERPS				
L3 Config				
Alarm				
🐵 PoE Management 🗸 👻				

Configuration Steps

1. Select [Advanced / STP / Mapping Configurations] in the navigation bar to enter the STP [Mapping Configuration] interface.

2. The STP Mapping configuration information can be viewed in the [Mapping Configurations] interface.

3. To modify the mapping configuration, you can enter configuration item on the right side of the corresponding ccolumn .

ltem	Description	Notes
Port	Port Name	
Configuraiton Name	MAC address identifier	
Configuration Revision	The modification range is 0-65535	Default:0
VLANs Mapped	Use commas to separate, the VLAN range is 1- 4096, such as 2-5, 7, 9, etc	

4.11.3 Advanced-STP-Priority Configuration

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FIBERROAD			Running Time: 01:02:57 Save	Language: Auto V Logout
Expand Collapse	MSTI Priority Configuration			
-Device Summary	MSTI	Priority		
🖲 System	•	· ·		
Management	CIST	32768 ~		
Base Configuration	MSTII	32768 🗸		
Advanced Ports	MSTI2	32768 🗸		
+ ACL	MSTI3	32768 🗸		
DHCP snooping	MSTI4	32768 🗸		
DHCP Server	MSTI5	32768 🗸		
Multicast	MSTI6	32768 🗸		
-GMRP	MSTI7	32768 🗸		
GMRP Setting		Apply Refresh		
© GVRP				
GVRP Setting				
E-Link Aggregation				
Loopback				
-STP				
-Bridge Configuration				
Mapping Configuration				
Priority Configuration				
-CIST Port Configuration				
-Ports Status				
Statistics				
ERPS				
L3 Config				
Alarm				
PoE Management				

- 1. Select [Advanced / STP / Priority Configurations] in the navigation bar to enter the STP [Priority Configuration] interface.
- 2. The STP Priority configuration information can be viewed in the [Priority Configurations] interface.
- 3. To modify the priority configuration, you can enter configuration item on the right side of the corresponding column .

Item	Description	Notes
Priority	The size of the bridge priority determines whether the device can be selected as the root of the spanning tree. The bridge priority ranges from 0 to 61440	Default:32768

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Collapse								Res	ricted			
e Summary	Port	STP Enabled	Pa	th Cost	Priority	Admin Edge	Auto Edge	Role	TCN	BPDU Guard	Point-to	-point
m		0	< <		0 V	0 V		0		0	0	~
ement	GE/1	2	Specific V	200000	128 🗸	Non-Edge V		0			Auto	~
Configuration	GE/2		Specific Y	200000	128 ¥	Non-Edge V		-	-		Auto	~
ed s	GE/3	-	Specific V	200000	128 ~	Non-Edge V	-	0	-	0	Auto	~
5	GE/4	8	Specific V	200000	128 ~	Non-Edge V		0	0		Auto	~
P snooping	GE/5	2	Specific V	200000	128 ~	Non-Edge V		0	0	0	Auto	~
P Server	GE/6	-	Specific V	200000	128 ¥	Non-Edge V	-	0	0	0	Auto	×
licast	GE/7	8	Specific V	200000	128 ~	Non-Edge V	-	0	0	0	Auto	~
ξP	GE/8	8	Specific Y	200000	128 ~	Non-Edge V		0	0	0	Auto	~
MRP Setting	GE/9	8	Specific V	200000	128 ~	Non-Edge V	8	0	0		Auto	~
P	GE/10	8	Specific V	200000	128 ~	Non-Edge V		0			Auto	~
SVRP Setting	06/10		opecine +	200000	120 +	Non-Edge +		0	0	0	MULO	•
.1X Aggregation						Apply Refr	esh					
pback												
) .												
Bridge Configuration												
Tapping Configuration												
riority Configuration												
IST Port Configuration												
ISTI Port Configuration												
iridges Status												
orts Status												
Statistics												
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4.11.4 Advanced-STP-CIST Port Configuraion

- 1. Select [Advanced / STP / CIST Port Configuration] in the navigation bar to enter the STP [CIST Port Configuration] interface.
- 2. The STP CIST Port Configuraion can be viewed in the [CIST Port Configuraion] interface.
- 3. To modify the CIST Port Configuration, you can enter configuration item on the corresponding column .

ltem	Description	Notes
Port	Display switch port number	
STP Enabled	The checked end means the port stp function is enabled. If it is not checked, it is disabled.	Default:Disabled
Path Cost	Specific ~ Auto Specific Auto: Auto Negotiation Specific: Manual Setting	Default:Auto
Priority	When the port priority is changed, STP will recalculate the role of the port and perform state migration. The value of the port priority can only be a multiple of 16. The configuration range is 0-240.	Default:128
Admin Edge	Non-Edge/Edge	Default: Non-Edge
Auto Edge	If it is selected, automatic edge port identification is enabled. If it is not selected, automatic edge port identification is disabled. By default, automatic edge port	

	identification is enabled	
Role	If it is selected, the role is enabled. If it is not selected, the role is disabled. By default, the role is disabled	
TCN	The check end indicates TCN. If the check end is not selected, TCN is disabled.	Default:Disabled
BPDU Guard	The BPDU Guard enables an edge port to enter the Err-disable state when receiving BPDUs to prevents bridge loops. The BPDU filter prevents the switch from sending BPDUs to hosts on an edge port. This function is disabled by default	
Point-to-Point	 Force True: Indicates point-to-point link. If the port is in full-duplex mode, the link type is point-to-point link. Force False: Shared link. If the link is running in half-duplex mode, the link type is shared. Auto: Indicates that the port automatically establishes a link. The default port automatically establishes a link. Nowadays, switches are generally of point-to-point link type 	

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xpand Collapse	MSTI1 V			
Device Summary	Port		Path Cost	Priority
System Management	•	0 V		
Base Configuration	GE/1	Specific ~	200000	128 🗸
dvanced	GE/2	Specific V	200000	128 🗸
Ports	GE/3	Specific V	200000	128 🗸
ACL	GE/4	Specific V	200000	128 🗸
DHCP snooping	GE/5	Specific V	200000	128 V
DHCP Server	GE/6	Specific ~	20000	128 ~
Multicast	GE/7	Specific V	200000	128 🗸
GMRP	GE/8	Specific V	200000	128 ¥
GMRP Setting	GE/9	Specific V	20000	128 ¥
-GVRP Setting	GE/10	Specific Y	20000	128 ×
802.1X	06/10	apacine -	20000	120 1
Link Aggregation			Apply Refresh	
Loopback				
STP				
-Bridge Configuration				
-Mapping Configuration				
-Priority Configuration				
-CIST Port Configuration				
MSTI Port Configuration				
Bridges Status				
- Ports Status - Statistics				
ERPS				
3 Config				
larm				
PoE Management				

4.11.5 Advanced-STP-MSTI Port Configuraion

- 1. Select [Advanced / STP / MSTI Port Configuraion] in the navigation bar to enter the STP [MSTI Port Configuraion] interface.
- 2. The STP MSTI Port Configuration can be viewed in the [MSTI Port Configuration]

interface.

3. To modify the MSTI Port Configuration, you can enter configuration item on the corresponding column .

Port	Display switch port number	
Path Cost	Specific Auto Specific Auto: Auto Negotiation Specific: Manual Setting	
Priority	When the port priority is changed, STP will recalculate the role of the port and perform state migration. The value of the port priority can only be a multiple of 16. The configuration range is 0-240.	Default:128

4.11.6 Advanced-STP-Bridges Status

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Device Summary	MSTI	Bridge ID			Root			Topology Flag	Topology Change Last	
System	Mall	bridge ib	ID			Pert	Path Cost	Topology Flag	Topology Change Last	
Management	CIST	32768.00-18-93-12-54-4D	3276	8.00-18-93-12-54-4D		-	0	Steady	0d 01:34:18	
Base Configuration										
Advanced					Re	fresh				
Ports										
+ ACL										
DHCP snooping										
DHCP Server										
Multicast										
GMRP Setting										
⊜-GVRP										
GVRP Setting										
02.1X										
Link Aggregation										
Loopback										
⊜-STP										
Bridge Configuration										
-Mapping Configuration										
Priority Configuration										
-CIST Port Configuration MSTI Port Configuration										
Bridges Status										
-Bridges Status										
Statistics										
ERPS										
EL3 Config										
Alarm										
PoE Management										

Configuration Steps

1. Select [Advanced / STP / Bridges Status] in the navigation bar and enter the STP [Bridges Status] interface.

- 2. The Bridges Statuscan be viewed in the [Bridges Status] interface
- 3. Click [Refresh] to show the latest running information.

Click the name of the MSTI column, for example, the blue text with the underline "CIST" here, to view detailed status information about the bridge.

WebGUI User Manual

 ③ FR-7M3208 - Bridges Status × ← → C ▲ Not secure 192. 		sp						- ∨ -		
FIBERROAD			iiii Piri			Runnin	g Time: 01:38:12	Save Language: Auto 🗸	Logout	
Device Summary	STP Detailed	Bridge Status								
System	Bridge Instan	ce	CIST							
Management	Bridge ID		32768.00-18-93-12-54-4D						_	
Base Configuration	Root ID		32768.00-18-93-12-54-4D						_	
Advanced	Root Port									
Ports	Root Path Co	st	0						-	
+ ACL	Regional Roo		32768.00-18-93-12-54-4D						-	
DHCP snooping	Int. Path Cost		0						_	
DHCP Server	Max Hops		20							
Multicast	Topology Flag	1	Steady							
⊜-GMRP	Topology Cha		0						-	
GMRP Setting	Topology Cha		0d 01:38:22						-	
GVRP Setting										
#-802.1X	CIST Ports &	Aggregations State								
Link Aggregation	Port	Role	State	Priority	Path Cost	Edge	Point-to-point	Uptime		
Loopback	GE/1	DesignatedPort	Forwarding	128	200000	Yes	Yes	0d 01:38:23		
⊜-STP	GE/2	DesignatedPort	Forwarding	128	200000	Yes	Yes	0d 01:38:22		
Bridge Configuration	GE/4	DesignatedPort	Forwarding	128	200000	Yes	Yes	0d 01:38:26	_	
-Mapping Configuration	GE/6	DesignatedPort	Forwarding	128	200000	Yes	Yes	Od 01:39:13		
Priority Configuration	GE/7	DesignatedPort	Forwarding	128	200000	No	Yes	0d 01:39:25		
CIST Port Configuration	GE/8	DesignatedPort	Forwarding	128	200000	Yes	Yes	0d 01:39:20		
MSTI Port Configuration										
-Bridges Status				R	fresh Back					
Ports Status										
Statistics										
ERPS										
L3 Config										
Alarm PoE Management										
PoE Management Fxtended										
* Extended										

4.11.7 Advanced-STP-Ports Status

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- FIBERROAD					
		CONSOLE 9 7 5 3 1	Ru	nning Time: 01:48:25 Save Language: Auto	✓ Logout
Expand Collapse	Port	CIST Role	CIST State	Uptime	
-Device Summary	GE/1	DesignatedPort	Forwarding	0d 01:46:56	
🔅 System	GE/2	DesignatedPort	Forwarding	0d 01:46:55	
Management	GE/3	Disabled	Discarding		
Base Configuration	GE/4	DesignatedPort	Forwarding	0d 01:46:59	
Advanced	GE/5	Disabled	Discarding	-	
+ Ports	GE/6	DesignatedPort	Forwarding	0d 01:47:46	
ACL DHCP snooping	GE/7	DesignatedPort	Forwarding	0d 01:47:58	
DHCP shooping DHCP Server	GE/8	DesignatedPort	Forwarding	0d 01:47:53	
Multicast	GE/9	Disabled	Discarding	-	
GMRP	GE/10	Disabled	Discarding		
GMRP Setting					
			Refresh		
GVRP Setting					
# 802.1X					
Link Aggregation					
Loopback					
🖨 STP					
Bridge Configuration					
Mapping Configuration					
-Priority Configuration					
Bridges Status					
-Ports Status					
-Statistics					
+ ERPS					
L3 Config					
i Alarm					
PoE Management					

- 1. Select [Advanced / STP / Ports Status] in the navigation bar and enter the STP [Ports Status] interface.
- 2. The Bridges Statuscan be viewed in the [Ports Status] interface
- 3. Click [Refresh] to show the latest running information.

4.11.8 Advanced Configuration – Statistics	
--------------------------------------------	--

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												<u> </u>
	1			atiati a	ria i							
FIBERROAD	1	Part REN 🔛										
- FIBERROAD	- E	447	निन 🔚									
	1	CONSOLE						Run	ning Time: 01:4	9:33 Save Langu	ige: Auto 👻 Lo	gout
Expand Collapse	_		Transmitt	ed			Received		-	Discarde		1
Device Summary	Port	MSTP	RSTP	STP	TCN	MSTP	RSTP	STP	TCN	Unknown	Illegal	
System	GE/1	0	3030	0	0	0	0	0	0	0	0	
Management	GE/2	0	3030	0	0	0	0	0	0	0	0	
Base Configuration	GE/4	0	3032	0	0	0	0	0	0	0	0	
Advanced	GE/6	0	3054	0	0	0	0	0	0	0	0	
Ports	GE/7	0	3063	0	0	0	2	0	0	0	0	
+ ACL	GE/8	0	3057	0	0	0	0	0	0	0	0	
DHCP snooping	02/0	•	5557	0	0			U	5	•		1
DHCP Server Multicast							Refresh					
GMRP												
GMRP Setting												
GVRP												
GVRP Setting												
() 802.1X												
Link Aggregation												
E-Loopback												
⊜ STP												
-Bridge Configuration												
Mapping Configuration												
Priority Configuration												1
CIST Port Configuration												
MSTI Port Configuration												
Bridges Status												
-Ports Status												
L-Statistics												
ERPS												
L3 Config												
Alarm Alarm												
PoE Management v												

Configuration Step

1. Select [Advanced / STP / Statistics] in the navigation bar and enter the STP [Statistics] interface.

- 2. The STP current running information can be viewed in the [Statistics] interface
- 3. Click [Refresh] to show the latest running information.

4.12 Advanced Configuration – ERPS

4.12.1 Advanced Configuration – Global Setting

Ethernet Ring Protection Switching, or ERPS, is an effort at ITU-T under G. 8032 Recommendation to provide sub-50ms protection and recovery switching for Ethernet traffic in a ring topology and at the same time ensuring that there are no loops formed at the Ethernet layer.



Configuration Step

1.Select [Advanced / ERPS / Global Setting] in the navigation bar and enter the ERPS [Global Setting] interface

Remarks: 1, There is a way to check port link by sending packets. If the optical port is used as the ring port, it is recommended to 'Disable' the link check. If the ethernet port is the ring port, you may decide whether to 'enable' it in the following two cases: (1) Please enable it if the switch time demand is very high. Although the switching time has been improved, the drawback is that the packet mechanism will occupy bandwidth.

(2) Please disable it if the switching time requirement is not high.

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	📕 तन्त्र 🛅		
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2 CON10	u <u> </u>	Running Time: 01:51:39 Save	Language: Auto 👻 Logout
		ng Major ring East Port West Port Revertive Virtual Channel WTR Timer Guard Timer HoldOff Timer Switching Mod	
Advanced Ring ID Ring Type Node Type			
Ports	Ring Adding		
ACL	Ring ID	41-255+	
DHCP snooping	Ring Type	major-ring V	
DHCP Server	Node Type	transfer v	
Multicast	Protocol Vlan	(1-4094)	
⊜ GMRP	East Port	GE/1 V	
GMRP Setting	West Port	GE/1 V	
© GVRP	RPL Port		
GVRP Setting	Belong Major ring	none	
BU2.1X BLink Aggregation	Virtual Channel	with V	
Link Aggregation E Loopback	WTR Timer	1 vi-12> minutes Default1 minutes, Step is 1 minutes	
i STP			
-Bridge Configuration	Guard Timer	500 +10-2000+ milliseconds Default:500 milliseconds, Step is 10 milliseconds	
-Mapping Configuration	HoldOff Timer	0 «0-10000» milliseconds Default:0 milliseconds, Step is 100 milliseconds	
-Priority Configuration		Apply Cancel	
-CIST Port Configuration			
-MSTI Port Configuration			
-Bridges Status			
Ports Status			
Statistics			
e ERPS			
- Global Setting			
-Ring Setting			
Ring Information			
L3 Config			
. Alarm			
PoE Management			
Extended			
· · · · · · · · · · · · · · · · · · ·			

4.12.2 Advanced Configuration – ERPS - Ring Setting

Configuration Step

1.Select [Advanced / ERPS / Ring Setting] in the navigation bar and enter the ERPS [Ring Setting] interface

ltem	Description	Notes
Ring ID	Ring Adding ID <1-255>	
Ring Type	Major-ring / Sub-ring	
	Transfer: Forward both service packets and	
	protocol packets	
	rpl-owner: Responsible for blocking traffic over	
	the RPL so that no loops are formed in the	
	Ethernet traffic. There can be only one RPL owner	
Node Type	in a ring.	
	rpl-neighbour: An Ethernet ring node adjacent to	
	the RPL. It is responsible for blocking its end of	
	the RPL under normal conditions. This node type	
	is optional and prevents RPL usage when	

	protected.					
Protocol VLAN	Adding ring ERPS protocol VLAN					
East Port	A Ring port created on this node					
West Port	Another ring port created on the node					
	*Port on an RPL Link					
RPL Port	East Port					
	West Port					
Belong Major						
Ring						
Virtual						
Channel						
WTR Timer	<1-12> minutes, Default: 1 minutes, Step 1					
	minutes					
Guard Timer	<10-2000>milliseconds Default:500 milliseconds,					
Guaru Timer	Step is 10 milliseconds					
HoldOff Timer	<0-10000>milliseconds Default:0 milliseconds,					
	Step is 100 milliseconds					

4.12.3 Advanced Configuration – ERPS - Ring Information

S FR-7M3208 - Ring Information ×	× +			
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FIBERROAD			Running Time: 01:52:29	Save Language: <mark>Auto v</mark> Logout
OAC Scription Competitions Advanced Ports Advanced Ports OHCP Server OHCP Server OHCP Server OHCP Server OHRP Setting OVRP OVRP Setting OVRP OVRP Setting Solution Compact STP Pridge Configuration Mapping Configuration Priority Configuration	Exand I Collecte	Refeah		
CIST Port Configuration CIST Port Configuration Configura	7			

Configuration Step

1. Select [Advanced / ERPS / Ring Informations] in the navigation bar to enter the interface of ERPS [Ring Network Information].

2. The ERPS current running information can be viewed in the [Ring Informations] interface.

3. Click [Refresh] to show the latest running information.

Expand | Collapse

TRing ID:1									
Ring Type	major-ring	Node Type	transfer	Protocol Vlan	1				
Revertive	revertive	FSM State	protection	Virtual Channel	with				
East Port	GE/1/blocking	West Port	GE/2/blocking	Belong Major ring	N/A				
Guard Timer	500milliseconds	HoldOff Timer	Omilliseconds	WTB Timer	5000milliseconds				
WTR Timer	1minutes	Force Switch	Disabled	Manual Switch	Disabled				
Refresh									

4.13 L3 Config – Static Router Config

S FR-7M3208 - Static Router Co: ×	+					v – Ø
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FIDERROAD	2 est (mark)	न्तित 🛄 📠				
	CONSOLE		3 1		Running Time: 01:54:37	Save Language: Auto 🗸 Logout
are configuration	Destination		Subnet Mask		Gateway	Туре
lvanced						
Ports		Static Entries	200.200.200.0		N/A	
ACL		Add Type	Route ~			
DHCP snooping		Destination		IPv4(A.B.C.D)		
DHCP Server Multicast		Subnet Mask		IPv4(A.B.C.D)		
Multicast GMRP		Gateway		IPv4(A.B.C.D)		
GMRP Setting			Apply Cancel			
SVRP					1	
GVRP Setting						
302.1X						
Link Aggregation						
Loopback						
STP						
-Bridge Configuration						
-Mapping Configuration						
Priority Configuration						
-CIST Port Configuration						
-MSTI Port Configuration						
-Bridges Status						
-Ports Status						
Statistics						
ERPS						
-Global Setting						
-Ring Setting						
-Ring Information						
Config						
Static Router Config						
irm						
E Management						
*andad 🎽						

Configuration Step

1. Select [Advanced / L3 Config] in the navigation bar to enter the interface of Static Router Config.

2. The Static Router Configuration can be viewed in the [Static Router Config] interface.

3. Click [Add] to add additional Static Enrties .

4.14 Advanced Configuration – Alarm 4.14.1 Advanced Configuration – Alarm – Relay Setting

FIBERROAD						
	Constant I			Running Time:		Logout
Multicast	Alarm Event	Port	Admin Status	Link Status	Alarm Status	_
GMRP			0 V			_
GVRP	LinkDown	GE/1	Disabled ~	V	No	_
-GVRP Setting	LinkDown	GE/2	Disabled ~	¥	No	_
802.1X	LinkDown	GE/3	Disabled V	*	No	_
Link Aggregation	LinkDown	GE/4	Disabled ~	¥	No	_
Loopback	LinkDown	GE/5	Disabled V	*	No	
STP	LinkDown	GE/6	Disabled V	✓	No	
-Bridge Configuration Mapping Configuration	LinkDown	GE/7	Disabled V	✓	No	
-Priority Configuration	LinkDown	GE/8	Disabled V	✓	No	
-CIST Port Configuration	LinkDown	GE/9	Disabled V	×	No	
MSTI Port Configuration	LinkDown	GE/10	Disabled V	×	No	
-Bridges Status	Power Supply	N/A	Enabled ¥	N/A	Yes(Power 2)	
-Ports Status	Low Temperature	N/A	Enabled V	N/A	No	
Statistics	High Temperature	N/A	Enabled V	N/A	No	
ERPS	LinkDown	GE/1	Disabled V	¥	No	
-Global Setting	LinkDown	GE/2	Disabled ~	¥	No	
-Ring Setting	LinkDown	GE/3	Disabled	×	No	-
-Ring Information	LinkDown	GE/4	Disabled ~	×	No	
Config	LinkDown	GE/5	Disabled V	×	No	
Static Router Config	LinkDown	GE/6	Disabled V	×	No	
irm	LinkDown	GE/7	Disabled V	×	No	-
Relay Setting	LinkDown	GE/8	Disabled	· · · · · · · · · · · · · · · · · · ·	No	-
Led Setting	LinkDown	GE/9	Disabled	*	No	-
Temperature Setting	LinkDewn	GE/10	Disabled Y	**************************************	No	-
Trap Setting	Power Supply	N/A	Enabled V	N/A	Yes(Power 2)	-
Power Setting	Lower only a	14/74	Enauled +	17/5	testromet st	

Configuration Step

1. Select [Advanced / Alarm / Relay Setting] in the navigation bar to enter the interface of Alarm [Relay Setting].

2. The Alarm Event, Admin Status, Link Status and Alarm Status can be viewed in the [Relay Setting] interface

3 Select [Disabled/Enabled] of admin Status, Click[Apply] to submit the admin status.

4. Click [Refresh] to show the latest running information.

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FIBERROAD				Running Time: 02:	17.07 Save Language; <mark>Auto ∨</mark>
d Collapse	Alarm Event	Port	Admin Status	Link Status	Alarm Status
ice Summary		•	0 V		
tem	LinkDown	GE/1	Disabled ~	¥	No
nagement	LinkDown	GE/2	Disabled V	¥	No
se Configuration	LinkDown	GE/3	Disabled V	*	No
vanced Ports	LinkDown	GE/4	Disabled V	¥	No
ACL	LinkDown	GE/5	Disabled ~	*	No
ACL DHCP snooping	LinkDown	GE/6	Disabled ~	~	No
DHCP Server	LinkDown	GE/7	Disabled ~	~	No
Multicast	LinkDown	GE/8	Disabled V	×	No
GMRP	LinkDown	GE/9	Disabled ~	×	No
GMRP Setting	LinkDown	GE/10	Disabled V	×	No
GVRP	Power Supply	N/A	Enabled V	N/A	Yes
GVRP Setting	Low Temperature	N/A	Enabled V	N/A	No
802.1X	High Temperature	N/A	Enabled	N/A	No
Link Aggregation			(Enabled		
-Loopback			Apply	Refresh	
STP					
ERPS					
Config					
Static Router Config					
Irm					
Relay Setting					
Led Setting					
Temperature Setting					
Trap Setting Power Setting					
E Management					

4.13.2 Advanced Configuration – Alarm – Led Setting

Configuration Step

1. Select [Advanced / Alarm / Led Setting] in the navigation bar to enter the interface of Alarm [Led Setting].

2. The Alarm Event, Admin Status, Link Status and Alarm Status can be viewed in the [Led Setting] interface

3 Select [Disabled/Enabled] of admin Status, Click[Apply] to submit the admin status.

4. Click [Refresh] to show the latest running information.

4.13.3 Advanced Configuration – Alarm – Temperature Setting

FR-7M3208 - Temperature Set: ×	+							o x
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Expandi Collapse				Running Time, GEODAR	0470	canguage.	1010 -	Logost
Device Summary	Temperature Alarm Setting							
System	Current Temperature	37 °C	2					
Management	Low Temperature Threshold(°C)	-40	<-50 - 125> Default:-40					
Base Configuration	High Temperature Threshold(*C)	85	<-50 - 125> Default:85					
Advanced			Refresh Apply					
Ports			· · · · · · · · · · · · · · · · · · ·					
.ACL								
DHCP snooping								
DHCP Server								
Multicast								
. GMRP								
GMRP Setting								
GVRP								
GVRP Setting								
# 802.1X								
Link Aggregation								
Loopback								
. STP								
ERPS								
😑 L3 Config								
Static Router Config								
Alarm Relay Setting								
- Relay Setting - Led Setting								
-Temperature Setting								
-Trap Setting								
Power Setting								
PoE Management								
Extended								

Configuration Step

1. Select [Advanced / Alarm /Temperature Setting] in the navigation bar to enter the interface of Alarm [Temperature].

2. The current temperature and temperature setting can be viewed in the [Temperature Setting] interface

3 Enter required temperature value at the Low / High Temperature Threshold($^{\circ}$ C), Click[Apply] to submit the modification.

4. Click [Refresh] to show the latest information.

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FIBERROAD				Running Time: 02:39	:18 Save Language:∫Auto ❤ Log
and Collapse	Alarm Event	Port	Admin Status	Link Status	Alarm Status
vice Summary		•	o v		
stem	LinkUp	GE/1	Disabled V	¥	No
inagement	LinkUp	GE/2	Disabled V	¥	No
ase Configuration	LinkUp	GE/3	Disabled V	*	No
dvanced Ports	LinkUp	GE/4	Disabled ~	¥	No
ACL	LinkUp	GE/5	Disabled V	*	No
DHCP snooping	LinkUp	GE/6	Disabled ~	¥	No
DHCP Server	LinkUp	GE/7	Disabled V	¥	No
Multicast	LinkUp	GE/8	Disabled V	¥	No
GMRP	LinkUp	GE/9	Disabled V	*	No
GMRP Setting	LinkUp	GE/10	Disabled ~	*	No
GVRP	LinkDown	GE/1	Disabled V	¥	No
GVRP Setting	LinkDown	GE/2	Disabled ~	¥	No
802.1X	LinkDown	GE/3	Disabled ~	*	No
Link Aggregation	LinkDown	GE/4	Disabled ~	¥	No
Loopback	LinkDown	GE/5	Disabled V	*	No
STP	LinkDown	GE/6	Disabled V	¥	No
ERPS 3 Config	LinkDown	GE/7	Disabled V	¥	No
- Static Router Config	LinkDown	GE/8	Disabled V	¥	No
arm	LinkDown	GE/9	Disabled V	*	No
Relay Setting	LinkDown	GE/10	Disabled V	*	No
-Led Setting	Power Supply	N/A	Enabled ¥	N/A	Yes(Power 2)
Temperature Setting	Low Temperature	N/A	Enabled V	N/A	No
Trap Setting	High Temperature	N/A	Enabled V	N/A	No
Power Setting					
E Management			Apply	Refresh	

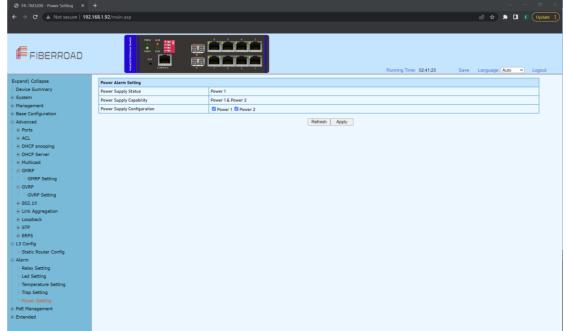
4.13.4 Advanced Configuration – Alarm – Trap Setting

Configuration Step

1. Select [Advanced / Alarm / Trap Setting] in the navigation bar to enter the interface of Alarm [Trap Setting].

2. The Alarm Event, Admin Status, Link Status and Alarm Status can be viewed in the [Trap Setting] interface

- 3 Select [Disabled/Enabled] of admin Status, Click[Apply] to submit the admin status.
- 4. Click [Refresh] to show the latest running information.



4.13.5 Advanced Configuration – Alarm – Power Setting

Configuration Step

1. Select [Advanced / Alarm / Power Setting] in the navigation bar to enter the interface of Alarm [Power Setting].

4.15 PoE Management

4.15.1 PoE Management	– Port	Configuration
-----------------------	--------	---------------

FR-7M3208 - Port Config ×												
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FIBERROAD		Participation (Sanataria)		; Cardarda ; Cardarda ; Cardarda				Running Time: 02:44:03	Save	Languag	e: Auto	 Logor
Base Configuration	PoE G	ilobal Setting										
Base Configuration Advanced		gement Mode			class-consump ~	1						
-Advanced		Supply Power				300 W)						
ACL		Isage Threshold				100%)						
DHCP snooping		nt Power Consumptio	0		3%	10.8/300W						
DHCP Server		Reserved Power			35	11.5/300W						
Multicast						11.0/300W				_		
⊜-GMRP	Note:If	you want to disable PoE	mode, you must disable the	port smart power and timir	ng power supply.							
GMRP Setting				Runni	ng Status			Admin Status				
GVRP	Port	Status	Current Used(mA)	Power Used(W)	Requested Power(W)	Allocated Power(W)	PD Class	PoE Mode	Priority		Power Limit	(W)
GVRP Setting	•							• •	•	~		
SU2.1X Link Aggregation	GE/1	PoE turned ON	54	2.7	15.4	15.4	Class 0	Enabled PoE+ 🗸	Low	~	30.0	
E Loopback	GE/2	PoE turned ON	44	2.2	15.4	15.4	Class 0	Enabled PoE+ V	Low	~	30.0	
. STP	GE/3	No PD Detected	0	0	0	0	Unknown	Enabled PoE+ V	Low	×	30.0	
-ERPS	GE/4	PoE turned ON	39	1.9	15.4	15.4	Class 0	Enabled PoE+ V	Low	~	30.0	
L3 Config	GE/5	No PD Detected	0	0	0	0	Unknown	Enabled PoE+ V	Low	~	30.0	
-Static Router Config	GE/6	PoE turned ON	32	1.6	15.4	15.4	Class 0	Enabled PoE+ V	Low	~	30.0	
Alarm	GE/7	No PD Detected	0	0	0	0	Unknown	Enabled PoE+ V	Low	×	30.0	
-Relay Setting	GE/8	PoE turned ON	48	2.4	15.4	15.4	Class 0	Enabled PoE+ V	Low	~	30.0	
-Led Setting		Total	217	10.8	77	77						
-Temperature Setting -Trap Setting												
Power Setting						Apply Refresh						
PoE Management												
-Port Config												
-Smart Power Config												
-Time Range Config												
Timing Supply Config												

Configuration Step

1. Select [PoE Management/Port Configuration] in the navigation bar to enter the interface of [Port Configuration].

2. The PoE Port Status and configuration can be viewed in the [Port Configuration] interface.

PoE Global Setting									
class-consump	V								
300	(0-300 W)								
85	(0~100%)								
3%	10.8/300W								
3%	11.5/300W								
	300 85 3%								

Note: If you want to disable PoE mode, you must disable the port smart power and timing power supply.

ltem	Description						
	1) Class-reserved						
	2) Class-consump						
	3) Allocated-reserved						
	4) Allocated-consump						
	Class : The corresponding power is allocated						
	according to PD grading, as shown in the figure below:						
Management Mode	Class 0 Class 1 Class 2 Class 4 Class 4						
	Watts 15.4W 4.0W 7.0W 15.4W 30.0W						
	Allocated: A power value is directly assigned to PD						
	regardless of the PD level, and this power value can						
	be set. If PoE+ is enabled, the maximum power is						
	15.4W. If PoE+ is enabled, The maximum power is						
	30.0W.						

Reserved : Calculate the total power of the system							
	according to the power allocated to PD.						
	Consump : The total system is calculated according to						
	the current power consum	ed by PD.					
	When the power consumed exceeds this threshold,						
PoE Usage Threshold	the interface will display red if the corresponding PoE						
	Max lights will be lightened.						
Current Power	The sum of the power consumption of all PDs as a						
Consumption	Consumption percentage of the total maximum output power.						
Total Reserved Power	Power allocated to PD as a	percentage of total power					
	Running Status	Admin Status					

Port	Status	Current Used(mA)	Power Used(W)	Requested Power(W)	Allocated Power(W)	PD Class	PoE Mode	Priority	Power Limit(W)
•							* •	* •	
GE/1	PoE turned ON	54	2.7	15.4	15.4	Class 0	Enabled PoE+ v	Low 🗸	30.0
GE/2	PoE turned ON	44	2.2	15.4	15.4	Class 0	Enabled PoE+ V	Low Y	30.0
GE/3	No PD Detected	0	0	0	0	Unknown	Enabled PoE+ V	Low 🗸	30.0
GE/4	PoE turned ON	39	1.9	15.4	15.4	Class 0	Enabled PoE+ V	Low 🗸	30.0
GE/5	No PD Detected	0	0	0	0	Unknown	Enabled PoE+ V	Low 🗸	30.0
GE/6	PoE turned ON	32	1.6	15.4	15.4	Class 0	Enabled PoE+ ~	Low ~	30.0
GE/7	No PD Detected	0	0	0	0	Unknown	Enabled PoE+ V	Low 🗸	30.0
GE/8	PoE turned ON	48	2.4	15.4	15.4	Class 0	Enabled PoE+ V	Low 🗸	30.0
	Total	217	10.8	77	77				

ltem	Description				
Running Status	Port/Current Used(mA)/Power Used(W)/Requested				
	Power(W)/Allocated Power(W)/PD Class (Class0-4)				
	PoE Mode :(Disable/Enabled PoE/Enabled PoE+)				
	Priority: Low(Default), High and Critical				
	When the power consumed by the PD device is				
	greater than the total power that the PSE can provide,				
	it is a means to ensure that key devices can supply				
	power preferentially. When the power supply of the				
Admin Status	PSE equipment is insufficient, if different terminals				
Aumin Status	When the port priorities are the same, the priority is				
	sorted according to the port number, and the port				
	with the smaller port number is given priority to				
	ensure the power supply.				
	Power Limit(W) :The maximum output power of the				
	port. This value only takes effect when the				
	management mode is Allocated.				

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FIBERROAD			Running Time: 02:45:07	Save Language: Auto 👻 Logout
se Configuration	Smart Power Config			
vanced	Zero Traffic Duration	120 (60-600s)		
Ports	If there is no traffic detected on the nort after the	above duration, the port will disable PoE and reenable PoE after 10 seconds.		
ACL		autre duration, the port will beaute hot, and reenable hot, and ho adoption.		
DHCP snooping	Port Smart Power Config			
DHCP Server	Port	Smart Power		
Multicast	-	¥		
GMRP	GE/1	Disabled V		
GMRP Setting	GE/2	Disabled V		
GVRP	GE/3	Disabled v		
GVRP Setting	GE/4	Disabled V		
802.1X	GE/5	Disabled V		
Link Aggregation	GE/6	Disabled V		
Loopback	GE/7	Disabled V		
STP	GE/8	Disabled V		
ERPS		Apply Refrei	-	
Config		Appy Rene	91	
Static Router Config				
Relay Setting				
Led Setting				
Temperature Setting				
Trap Setting				
Power Setting				
E Management				
Port Config				
Smart Power Config				
Time Range Config				
Timing Supply Config				

4.15.2 PoE Management – Smart Power Configuration

Configuration Step

1. Select [PoE Management/Smart Power Configuration] in the navigation bar to enter the interface of [Smart Power Configuration].

2. The smart power configuration can be viewed in the [Smart Power Configuration] interface.

ltem	Description
Zero Traffic Duration	If there is no traffic detected on the port after the above duration(Zero Traffic Durtation), the port will disable PoE and reenable PoE after 10 seconds. Configurable Duration: 60-600s
Smart Power	Disabled/Enable (Default: Disbled)

FR-7M3208 - Time Range Con 🗙 🕒	+				
→ C ▲ Not secure 192.1	68.1.92/main.asp				🖻 🖈 🖨 🗉 🗊 Update
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neneyenien.				Roming time. 62.40.10	Cave cangeage. Note - cogear
Sase Configuration	Name Name	Status	Time		
dvanced		Add Time Range Co	Delet		
Ports		Name			
ACL		Mode	Absolute Operiadic		
DHCP snooping		Start Time	1970 - 01 - 01 - 00 - 00 - 00 - 00 -		
DHCP Server		End Time	1970 - 01 - 01 - 00 - 00 - 00 - 00 -		
Multicast			Apply Cancel		
GMRP GMRP Setting					
GVRP Setting					
GVRP Setting					
-802.1X					
Link Aggregation					
Loopback					
STP					
ERPS					
Config					
Static Router Config					
arm					
Relay Setting					
Led Setting					
Temperature Setting					
Trap Setting					
Power Setting					
E Management					
Port Config					
Smart Power Config					
-Time Range Config Timing Supply Config					

4.15.3 PoE Management – Time Range and Time Supply Configuration

Configuration Step

1. Select [PoE Management/Time Range and Timing Supply Configuration] in the navigation bar to enter the interface of [Time Range and Timing Supply Configuration].

2. The smart poe schedule can be configurate with [Time Range and Timing Supply Configuration] interface.

PoE Schedule Configuration Step

Add Time Range Config					
Name					
Mode	Absolute O Periodic				
Start Time	1970 v - 01 v - 01 v 00 v : 00 v : 00 v				
End Time	1970 - 01 - 01 - 00 -: 00 -: 00 -				
Apply Cancel					

- 1. Enter the name of Time Range
- 2. Select Mode [Absolute / Periodic]
- 3. When selected Absolute mode, also select start time and end time

Add Time Range Config						
Name						
Mode	O Absolute 🖲 Periodic					
Time	$00 \checkmark : 00 \lor : 00 - 00 \lor : 00 \lor : 00$					
Week Sun Mon Tues Wed Thur Fri Sat						
Apply Cancel						

4. When selected Periodic mode, also select time and week.

Note: This time is the system time used, so it is best to enable the SNTP client of the switch to synchronize the system time.

4.16 Extended

4.16.1 Extended – Port Cable Setting

You can check the status of copper cables using the time domain reflectometer (TDR). The TDR detects a cable fault by sending a signal through the cable and reading the signal that is reflected back to it. All or part of the signal can be reflected back by any number of cable defects or by the end of the cable itself.

S FR-7M3208 - Port Cable Test ×	+									- 0 ×
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_	1		ः तन्त्वः 🛄							
FIBERROAD	le l	rin nin 💷								
		·" [
		CONIOL	30 7 I	· · · ·			Running Time: 02:46:08	Save	Language: Auto 🗸	Logout
Ports	Port Cable Test									
. ACL	Port List	🗆 All								
DHCP snooping	Portelat	GE/1	GE/2	🗆 GE/3	🗆 GE/4	GE/5	GE/6	GE/7	GE/8	
DHCP Server										
Multicast										
GMRP Setting	Port	Channel A(m)		Channel B(m)		Channel C(m)		Channel D(m)		
B-GVRP										
GVRP Setting										
9 802.1X										
Link Aggregation										
E Loopback										
+ STP										
ERPS										
E L3 Config										
Alarm										
Relay Setting										
-Led Setting										
Temperature Setting										
-Trap Setting										
Power Setting										
PoE Management										
Port Config Smart Power Config										
- Time Range Config										
Timing Supply Config										
Extended										
-Port Cable Test										
Ping Test										
×.										

Configuration Step

1. Select [Advanced / Extended /Port Cable Test] in the navigation bar to enter the interface of [Port Cable Test]

- 2. The Port Cable Setting and Result can be viewed in the [Port Cable Test] interface
- 3 Select needed test port at the port list ,Click[Start] to submit the testing.

4.16.2 Extended – Ping Test

The easiest way to ping a specific port is to use the telnet command followed by the IP address and the port that you want to ping.

FR-7M3208 - Ping Test × +		~ - @ ×
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Time Range Config		
Timing Supply Config		
Extended		
Port Cable Test		
Ping Test		

Configuration Steps

1. Select [Advanced / Extended /Ping Test] in the navigation bar to enter the interface of [Ping Test].

2. The ping test configuration and process can be viewed in the [Ping Test] interface

3 Enter destination address, Click[Start] to submit the ping test, all the command can be viewed at the below blank.

4. Click [clean] to clean all of the command at the blank..

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