

IS-RG528 Series

28-Port Industrial Ethernet Managed Switch

Web Configuration Tool Guide

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1. Introductions

1.1 System Description

IS-RG528 Series 28-port Managed switches deliver high quality, wide operating temperature range, extended power input range, IP-30 design, and advanced VLAN & QoS features. It's ideal for harsh environments and mission critical applications.

IS-RG528 Series Managed switches provides enterprise-class networking features to fulfill the needs of large network infrastructure and extreme environments.

IS-RG528 Series Managed switches ease the effort to build a network infrastructure which offers a reliable, well managed and good QoS networking for any business requiring continuous and well-protected services in industrial environments. With the features such as I.A. Ring & Chain, Ethernet OAM, IEEE 1588v2 / Sync-E and QoS, customers can ensure their network is qualified to deliver any real-time and high quality applications.

1.2 Using the Web Interface

The object of this document "**IS-RG528 Series Web Configuration Tool Guide**" is to address the web feature, design layout and describe how to use the web interface.

1.2.1 Web Browser Support

IE 7 (or newer version) with the following default settings is recommended:

Language script	Latin based
Web page font	Times New Roman
Plain text font	Courier New
Encoding	Unicode (UTF-8)
Text size	Medium

Firefox with the following default settings is recommended:

Web page font	Times New Roman
Encoding	Unicode (UTF-8)
Text size	16

Google Chrome with the following default settings is recommended:

Web page font	Times New Roman
Encoding	Unicode (UTF-8)
Text size	Medium

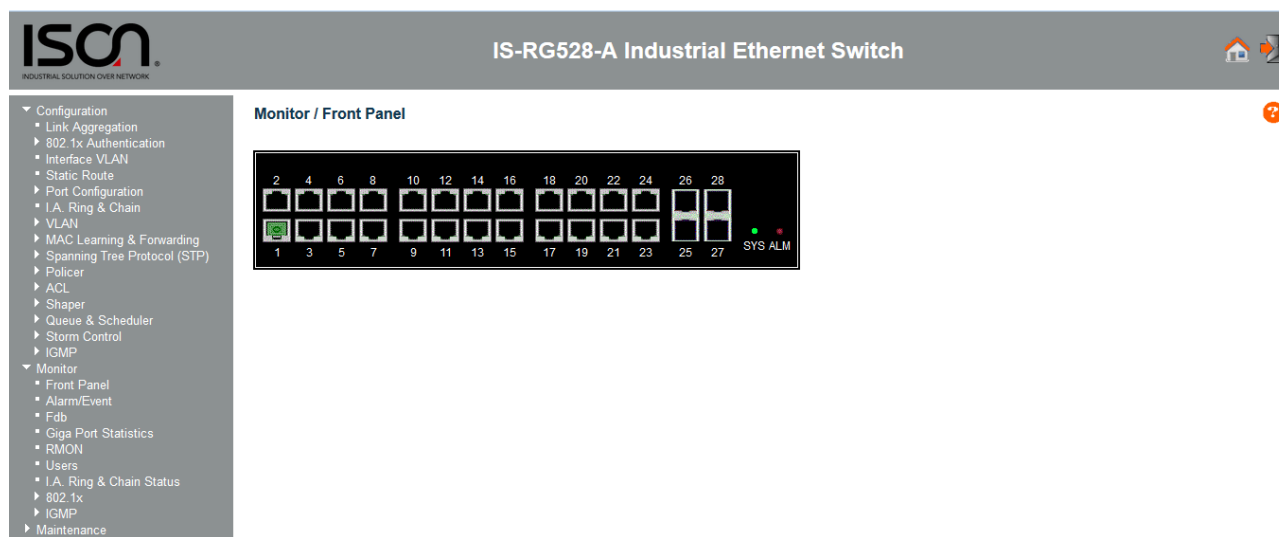
1.2.2 Navigation

All main screens of the web interface can be reached by clicking on hyperlinks in the four menu boxes on the left side of the screen:

- **Status** - Display statistics, status, and contents of memory.
- **Configuration** - Configure the system, interfaces, and filters.
- **System** - Display system information, download firmware, back up configurations, and modify users.

You can find the detailed information in section 2.2 Tree View.

1.2.3 Title Bar Icons



Help Button

For more information about any screen, click on the Help button on the screen.

Help information is displayed in the same window.

Save Button


If any unsaved change has been made to the *configuration* (by you during this or a prior session, or by any other administrator using the web interface or the Command Line Interface), a Save icon appears in the title line. To save the running configuration to the startup configuration:

1. Click on the Save icon. The System/Save and Restore screen appears.
2. Click on Submit next to Data Control Action drop-down list on top of System/Save and Restore screen.

1.2.4 Ending a Session

To end a session, close your web browser. This prevents an unauthorized user from accessing the system using your user name and password.

1.3 Using the Online Help

Each screen has a  Help button that invokes a page of information relevant to the particular screen. The Help is displayed in a new window.

Each web page of Configuration/Status/System functions has a corresponding help page.

2. Using the Web

2.1 Login

IS-RG528-A Web Interface Login

Username:

Password:

Operation	1. Fill Username and Password 2. Click "Sign in"
Field	Description
Username	Login user name. The maximum length is 32. Default: admin
Password	Login user password. The maximum length is 32. Default: admin

2.2 Tree View

The tree view is a menu of the web. It offers user quickly to get the page for expected data or configuration.

2.2.1 Configuration Menu

- ▼ Configuration
 - Link Aggregation
 - ▶ 802.1x Authentication
 - Interface VLAN
 - Static Route
 - ▶ Port Configuration
 - I.A. Ring & Chain
 - ▶ VLAN
 - ▶ MAC Learning & Forwarding
 - ▶ Spanning Tree Protocol (STP)
 - ▶ Policer
 - ▶ ACL
 - ▶ Shaper
 - ▶ Queue & Scheduler
 - ▶ Storm Control
 - ▶ IGMP
- ▶ Monitor
- ▶ Maintenance

2.2.2 Monitor Menu

- ▶ Configuration
- ▼ Monitor
 - Front Panel
 - Alarm/Event
 - Fdb
 - Giga Port Statistics
 - RMON
 - Users
 - I.A. Ring & Chain Status
- ▶ 802.1x
- ▶ IGMP
- ▶ Maintenance

2.2.3 Maintenance Menu

- ▶ Configuration
- ▶ Monitor
- ▼ Maintenance
 - Restart
 - Save & Restore
 - Firmware
 - Alarm Profile
 - CLI Options
 - HTTP(HTTPS)
 - SSL
 - SNTP
 - Syslog
 - User Administration
- ▶ SNMP

2.3 Configuration

2.3.1 Link Aggregation

Configuration / Link Aggregation

Previous Command Result: Normal

(Note: Trunk Group 1, 2, CANNOT take the same member port to each other; Max 4 member ports in a Trunk Group.)

Trunk Group 1

Member Port									
Select Member Port									
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Trunk Group 2

Member Port									
Select Member Port									
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Operation	<u>Modify:</u> 1. Select port with check box from GE-1 ~ GE-xx (xx = 10~28). 2. Click Modify button.
Field	Description
Trunk Group	Trunk Group number.

	<p><u>Note:</u></p> <p>Trunk Group 1 & 2 CANNOT take the member port that is already assigned to another Trunk Group; Max 4 member ports in a Trunk Group. Otherwise, the modification would be failed.</p>
Member Port	Display current member port of Trunk Group.
Mode	To enable/disable Link Aggregation for Trunk Group.
GE-1~GE-xx (xx=10~28)	To select member ports for Trunk Group. If Link Aggregation mode is disabled, then the member port would be cleared, that represents no member port is assigned to Trunk Group.

2.3.2 802.1x Authentication

2.3.2.1 RADIUS Setting

Configuration / 802.1x / RADIUS Setting

Previous Command Result: Normal

Server IP	0 . 0 . 0 . 0
Auth Port	1812
Secret Key	

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Modify Server IP, Authentication Port and Secret Key fields. 2. Click "Modify" button to apply change.
Field	Description
Server IP	<p>The IP address of RADIUS server.</p> <p>Allow IPv4 address. 0.0.0.0 means disable RADIUS.</p> <p>Default is 0.0.0.0.</p>

Auth Port	The UDP port of RADIUS server for authentication. Range 1~65535. Default is 1812.
Secret Key	The key to be used between RADIUS server and Authenticator. Range 0~16 chars. Default is empty string.

2.3.2.2 PAE Port Authentication

Configuration / 802.1x / PAE Port Authentication

Previous Command Result: Normal

System AuthControl: Disabled

<input type="checkbox"/>	Port	Auth Control	ReAuth Enabled	ReAuth Period(sec)	Quiet Period(sec)	Tx Period(sec)	Supp. Timeout(sec)	Server Timeout(sec)	Max Request
<input type="checkbox"/>	1	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	2	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	3	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	4	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	5	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	6	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	7	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	8	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	9	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	10	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	11	Force_Authorized	Disabled	3600	60	30	30	30	2
<input type="checkbox"/>	12	Force_Authorized	Disabled	3600	60	30	30	30	2

Operation	<p><u>Modify System Auth. Control:</u></p> <ol style="list-style-type: none"> 1. Select System Auth. Control. 2. Click "Modify" button to apply change. <p><u>Modify PAE Port Authentication:</u></p> <ol style="list-style-type: none"> 1. Update below fields. 2. Check up the port(s) to be changed. <p>Click "Modify" button to modify PAE Port Authentication options.</p>
------------------	---

Field	Description
System AuthControl	Enable/Disable system 802.1x authentication function. Default value is Disabled.
Port	PAE port: 1 ~ MAX Number of Port.
Auth Control	The authentication type of PAE port. Allow Force_Unauthorized/Force_Authorized/Auto. Default is Force_Authorized.
ReAuth Enabled	Enable/Disable re-authenticate of PAE port. Default is Disable.
ReAuth Period	The period of re-authenticant of PAE port. Range 1~3600 sec. Default is 3600 sec.
Quiet Period	The quiet period of PAE port. Range 1~255 sec. Default is 60 sec.
Tx Period	The timeout of authenticator waiting for EAP-Response/ Identity from supplication of PAE port. Range 1~255 sec. Default is 30 sec.
Supp. Timeout	The timeout of authenticator wait for EAP-Response (exclude EAP-Request/Identify) after sending EAP-Request. Range 1~255 sec. Default is 30 sec.
Server Timeout	The timeout time of Authenticator wait Access-Challenge/ Access-Accept/ Access-Reject after sending Access-Request. Range 1~255 sec. Default is 30 sec.
Max Request	The max times of backend Authenticator send EAP-Request to supplicant before restarting the authentication process. Range 1~10. Default is 2.

2.3.3 Interface VLAN

Configuration / Interface VLAN

Previous Command Result: Normal

VID:

IP Address:
 .
 .
 .

Netmask:
 .
 .
 .

<input type="checkbox"/>	VID	IP Address	Netmask	Mac Address
<input type="checkbox"/>	1	192 . 168 . 0 . 1	255 . 255 . 255 . 0	00:11:22:33:44:55

Operation	<p><u>Create:</u></p> <ol style="list-style-type: none"> 1. Fill VID, IP Address and Netmask 2. Click "Create New" button to create Interface VLAN. <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Multi-select a row data in Interface VLAN table. 2. Click "Delete" button to delete Interface VLAN.
Field	Description
VID	The identity for the RIP Interface. Range 1~4094. 1st RIP interface VLAN always exist for VLAN 1. (Only support set can't be deleted)
IP Address	IP address for the vlan interface. Range 0~255. Default value is 0.
Netmask	Network subnet mask for the VLAN interface. Range 0~255. Default value is 0.
Mac Address	MAC address for the VLAN interface. Readonly.

2.3.4 Static Route

Configuration / Static Route

Previous Command Result: Normal

Default Gateway
0
.
0
.
0
.
0
Modify

Create New
Destination:

.

.

Netmask:

.

.

Gateway:

.

.

Delete

<input type="checkbox"/>	Index	Destination	Netmask	Gateway
--------------------------	--------------	--------------------	----------------	----------------

Operation	<p><u>Modify:</u></p> <p>Click "Modify" button to apply new gateway.</p> <p><u>Create:</u></p> <ol style="list-style-type: none"> 1. Fill Destination, Netmask and Gateway. 2. Click "Create New" button to create one static route. <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select static route entry(s). 2. Click "Delete" button to delete selection.
Field	Description
Default Gateway	Input default gateway IP address for management and Layer3 VLAN interface routing
Destination	Destination network address of static route.
Netmask	Network subnet mask for the route.
Gateway	Next hop IP address for the destination network.
Index	The index of the static route.

2.3.5 Port Configuration

2.3.5.1 Bridge Port

Configuration / Bridge Port

Previous Command Result: Normal

	Port	PVID	Default Priority	Accept Frame Type
<input type="checkbox"/>	GE-1	1	0 ▾	All ▾
<input type="checkbox"/>	GE-2	1	0 ▾	All ▾
<input type="checkbox"/>	GE-3	1	0 ▾	All ▾
<input type="checkbox"/>	GE-4	1	0 ▾	All ▾
<input type="checkbox"/>	GE-5	1	0 ▾	All ▾
<input type="checkbox"/>	GE-6	1	0 ▾	All ▾
<input type="checkbox"/>	GE-7	1	0 ▾	All ▾
<input type="checkbox"/>	GE-8	1	0 ▾	All ▾
<input type="checkbox"/>	GE-9	1	0 ▾	All ▾
<input type="checkbox"/>	GE-10	1	0 ▾	All ▾
<input type="checkbox"/>	GE-11	1	0 ▾	All ▾
<input type="checkbox"/>	GE-12	1	0 ▾	All ▾
<input type="checkbox"/>	GE-13	1	0 ▾	All ▾

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Enter or select row by checking up check box. 2. Modify the configuration 3. Press “Modify” button to apply modification. <p><u>Refresh:</u></p> <ol style="list-style-type: none"> 1. Click “Refresh” button to get current data.
Field	Description
Port	Bridge port number

PVID	Value: 1~4094. Default value is 1.
Default Priority	Default Priority value: 0~7. Default is 0.
Accept Frame Type	Type: All/ OnlyVlanTagged/ Only Untagged. Default is All.
Max MAC Limit	Range: Enabled/ Disabled. Default is Disabled.
Max MAC	Range: 0~32. Default is 8.

2.3.5.2 Giga Port

Configuration /Giga Port

Previous Command Result: Normal

	Port	Admin Status	Link Mode	Link Status	Flow Control
<input type="checkbox"/>	GE-1	Enabled ▼	Auto ▼	Copper / 1000Mbps Full-Duplex	Disabled ▼
<input type="checkbox"/>	GE-2	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-3	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-4	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-5	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-6	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-7	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-8	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-9	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-10	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-11	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-12	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-13	Enabled ▼	Auto ▼	Link Down	Disabled ▼
<input type="checkbox"/>	GE-14	Enabled ▼	Auto ▼	Link Down	Disabled ▼

Operation	<u>Modify:</u> 1. Select a row item to selected 2. Set or select the following fields. 3. Click "Modify" button to modify.
Field	Description
Port	GE-1~ MAX Number of Port.
Admin Status	Enabled/Disabled, default=Enabled.
Link Mode	Configuration for Link Mode: Auto (default is Auto) 10Mbps Half/Full Duplex 100Mbps Half/Full Duplex 1000Mbps Full Duplex 2500Mbps Full Duplex (only in some model)
Link Status	Display Link type and speed Possible Type: Copper/ SFP Possible Status: 10Mbps Half-Duplex or Full-Duplex 100Mbps Half-Duplex or Full-Duplex 1000Mbps Full-Duplex 2500Mbps Full-Duplex (only in some model)
Copper/ SFP Priority	Only some model supports Copper/SFP combo port, default is SFP first.
Flow Control	Range: Enabled/Disabled, default=Disabled.

2.3.5.3 Port Isolation

Configuration / Port Isolation

Previous Command Result: Normal

Port: GE-1 Modify

GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
-	N	N	N	N	N	N	N	N	N
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
N	N	N	N	N	N	N	N	N	N
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28		
N	N	N	N	N	N	N	N		

Port Isolation-Modify

Configuration / Port Isolation-Modify

Source Port

Port 1~10									
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
—	N	N	N	N	N	N	N	N	N
Port 11~20									
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
N	N	N	N	N	N	N	N	N	N
Port 21~28									
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28		
N	N	N	N	N	N	N	N		

- Y: Enable Port Isolation
- N: Disable Port Isolation
- : Not permit setting(Isolation port is the same as source port).

Operation	<p><u>Modify:</u></p> <p>Click "Modify" button to open modification page.</p> <p><u>Port Isolation - Modify:</u></p> <ol style="list-style-type: none"> 1. Click "Disable All", "Enable All" or click on (Y/N/-) to change isolation setting by port. 2. Click "Apply" to apply change or Press "Cancel" to cancel and go back to main page of Isolation.
Field	Description
Source Port	GE-1 ~ MAX Number of Port.
Isolation Port	<p>Option: Y/ N/ -.</p> <p>Y: Isolation is true</p> <p>N: Isolation is false</p> <p>-: Not permit setting (Isolation port is the same as source port)</p>
Disable All	Disable Isolation to all ports
Enable All	Enable Isolation to all ports
Apply	Apply setting data.
Cancel	Cancel setting data.

2.3.5.4. Jumbo Frame

Configuration / Jumbo Frame

Previous Command Result: Normal

Jumbo Frame	Disabled ▾	Enabled/Disabled, default=Disabled
Size	1536	bytes, default=1536

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Modify the configuration. 2. Click “Modify” button to apply change.
Field	Description
Jumbo Frame	Option: Enabled/ Disabled, Default is Disabled.
Size	Range: 1536~9000 bytes, Default is 1536 bytes.

2.3.5.5 Port Mirror

Configuration / Port Mirror

Previous Command Result: Normal

Port Mirror	Disabled ▾	
Monitored Port	GE-1 ▾	
Tx Analyzer Port	GE-1 ▾	
Rx Analyzer Port	GE-1 ▾	

Operation	<u>Modify:</u> 1. Modify the configuration 2. Click "Modify" button to apply change
Field	Description
Port Mirror	Enable/Disable Port Mirror function, default is Disabled.
Monitored Port	Value range is GE-1 ~ Port MAX Number , default is GE-1. Port to be monitored.
Tx Analyzer Port	Value range is GE-1 ~ Port MAX Number , default is GE-1. It monitors 'out' packet of monitored port.
Rx Analyzer Port	Value range is GE-1 ~ Port MAX Number , default is GE-1. It monitors 'in' packet of monitored port.

2.3.5.6 I.A. Ring & Chain

Configuration / I.A. Ring & Chain

Previous Command Result: Normal

Group	Mode	Role	Ring Port(s)
1	Disabled ▼	Ring(Slave) ▼	Forward Port GE-1 ▼ Forward Port GE-2 ▼
2	Disabled ▼	Ring(Slave) ▼	Forward Port GE-3 ▼ Forward Port GE-4 ▼
3	Disabled ▼	Chain (Member) ▼	Member Port GE-1 ▼ Member Port GE-2 ▼

Operation	<u>Modify:</u> 1. Modify the configuration Press "Modify" button to apply change.
Field	Description
Group	The group index. This parameter is used for easy identifying the ring when user configure it. Group 1 - this group supports configuration of ring. Group 2 - this group supports configuration of ring, coupling and dual-homing. Group 3 - this group supports configuration of chain and balancing-chain.

<p>Mode</p>	<p>Enable Ring on the specific group.</p> <p># When Group 1 or 2 is enabled: All configuration of Group 3 will be reset to default. Group 3 all configuration options will be locked.</p> <p># To configure Group 3: Both Group1 and 2 should be disabled first. When Group 3 is enabled, all configuration of Group1 and 2 will be reset to default. Group 1 and 2 all configuration options will be locked.</p>
<p>Role</p>	<p>Configure the Ring group on this switch as specific role.</p> <p># Group 1 - support option of ring-master and ring-slave. Ring - it could be master or slave.</p> <p># Group 2 - support configuration of the ring, coupling and dual-homing. Ring - it could be master or slave. Coupling - it could be primary or backup. Dual-Homing</p> <p># Group 3 - support configuration of the chain and balancing-chain. Chain - it could be head, tail or member. Balancing Chain - it could be central-block, terminal-1/2 or member.</p> <p>Note 1 - Group 1 must be enabled before enable Group 2 to coupling. Note 2 - When Group 1 or 2 is enabled, the configuration of Group 3 will be disabled. Note 3 - When Group 3 is enabled, the configuration of Group 1 and 2 will be disabled.</p>

Ring Port(s)	<p>Selecting ring port(s).</p> <p>Each ring port must be unique, CANNOT be configured in different groups; 2 ring ports between ring/chain CANNOT be the same.</p> <p># When role is ring/master: One ring port is forward port and another is block port. The block port is redundant port; it is blocking port in normal state.</p> <p># When role is ring/slave: Both ring ports are forward port.</p> <p># When role is coupling/primary: Only need one ring port named primary port.</p> <p># When role is coupling/backup: Only need one ring port named backup port. This backup port is redundant port; it is blocking port in normal state.</p> <p># When role is dual-homing: One ring port is primary port and another is backup port. This backup port is redundant port; it is blocking port in normal state.</p> <p># When role is chain/head: One ring port is member port and another is head port. Both ring ports are forwarding port in normal state.</p> <p># When role is chain/tail: One ring port is member port and another is tail port. The tail port is redundant port; it is blocking port in normal state.</p> <p># When role is chain/member: Both ring ports are member port. Both ring ports are forwarding port in normal state.</p> <p># When role is balancing-chain/central-block: One ring port is member port and another is block port. The block port is redundant port; it is blocking port in normal state.</p> <p># When role is balancing-chain/terminal-1/2: One ring port is member port and another is terminal port. Both ring ports are forwarding port in normal state.</p> <p># When role is balancing-chain/member: Both ring ports are member port. Both ring ports are forwarding port in normal state.</p>
---------------------	---

2.3.6 VLAN

2.3.6.1 Static VLAN

Configuration / VLAN

VID:

Previous Command Result: Normal

Port 1 ~ 10									
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
U	U	U	U	U	U	U	U	U	U

Port 11 ~ 20									
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
U	U	U	U	U	U	U	U	U	U

Port 21 ~ 28							
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28
U	U	U	U	U	U	U	U

Create New VLAN

Configuration / VLAN - Create

VID: Name:

Port 1 ~ 10									
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
-	-	-	-	-	-	-	-	-	-

Port 11 ~ 20									
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
-	-	-	-	-	-	-	-	-	-

Port 21 ~ 28							
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28
-	-	-	-	-	-	-	-

T: Tagged
U: Untagged
-: None

Modify VLAN

Configuration / VLAN - Modify

VID Name

Port 1 ~ 10									
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
U	U	U	U	U	U	U	U	U	U

Port 11 ~ 20									
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
U	U	U	U	U	U	U	U	U	U

Port 21 ~ 28							
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28
U	U	U	U	U	U	U	U

T: Tagged
U: Untagged
—: None

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> Click "Create New" button to open "Create New" page. Set VID and Name. Click fields to change status. Click "Apply" button to create, or click "Cancel" button to cancel. <p><u>Modify:</u></p> <ol style="list-style-type: none"> Click "Modify" button to open "Modify" page. Modify Name. Click "Apply" button to modify, click "Cancel" button to cancel. <p><u>Delete:</u></p> <ol style="list-style-type: none"> Choice VLANs checkbox to select. Click "Delete" to delete all selected VLANs. <p><u>Refresh:</u></p> <ol style="list-style-type: none"> Click "Refresh" button to get current data.
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Field	Description
VID	Value: 1~4094. Default value is 1.
Name	Range:0~32 characters
Tagged	Range: T/ U/ - . T: Tagged U: Untagged - : None (not join this VLAN)
Set All Ports to None	Set all ports to None (no port join this VLAN) -
Set All Ports to Tagged	Set all ports join the VLAN as Tagged. T
Set All Ports to Untagged	Set all ports join the VLAN as Untagged. U

2.3.6.2 Protocol Based VLAN

Configuration / Protocol Based VLAN

Create New

Port: GE-1

SVLAN:

S-Prio:

Ether Type: PPPoE Discovery Stage (0x8863)

Delete

Previous Command Result: Normal

<input type="checkbox"/>	Index	Port	Ether Type	SVLAN	S-Prio
--------------------------	-------	------	------------	-------	--------

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> 1. Click "Create New" button to Create New page. 2. Set Port and Ether Type, input SVLAN and S-Prio. 3. Click Create New button. (Max entry: 10.) <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select Index with check box. <p>Click "Delete" button to delete data.</p>
Field	Description
Index	Index 1~10.
Port	Protocol-base VLAN config port number, Port range:1 ~ MAX Number of Port.
Ether Type	<p>Select Ether Type:</p> <ol style="list-style-type: none"> 1. PPPoE Discovery Stage (0x8863). 2. PPPoE Session Stage (0x8864). 3. Internet Protocol (0x0800). 4. Address Resolution Protocol (ARP) (0x0806). 5. Others (input ether type), Range 0000~FFFF.
SVLAN	Service VLAN ID, Range 1 ~ 4094
S-Prio	CoS of SVLAN: 0~7, 8:reserve

2.3.6.3 VLAN Translation

Configuration / VLAN Translation

Port:

CVLAN:

C-Prio:

SVLAN:

S-Prio:

[VLAN Mode always Replaced N:1]

Previous Command Result: Normal

Index	Port	CVLAN	C-Prio	SVLAN	S-Prio	VLAN Mode
-------	------	-------	--------	-------	--------	-----------

Operation	<u>Create:</u> <ol style="list-style-type: none"> 1. Select Port, fill CVLAN, C-Prio, SVLAN and S-Prio. 2. Click "Create New" button to create new entry. Click Delete button to delete selected entry(s).
Field	Description
Index	Index 1~10, max entry number: 10.
Port	VLAN translation port number: GE-1 ~ MAX Number of Port.
CVLAN	Customer VLAN ID: Range: 1 ~ 4094
C-Prio	CoS of CVLAN: Range: 0~7, 8: reserve
SVLAN	Service VLAN ID: Range: 1 ~ 4094
S-Prio	CoS of SVLAN: Range: 0~7, 8: reserve
VLAN Mode	Currently only supports: Replaced N to 1.

2.3.6.4 VLAN Stacking

Configuration / VLAN Stacking

Previous Command Result: Normal

Ext-TPID: 0x (0x1 to 0xffff)

	Port	VLAN Stacking
<input type="checkbox"/>	GE-1	Disabled ▼
<input type="checkbox"/>	GE-2	Disabled ▼
<input type="checkbox"/>	GE-3	Disabled ▼
<input type="checkbox"/>	GE-4	Disabled ▼
<input type="checkbox"/>	GE-5	Disabled ▼
<input type="checkbox"/>	GE-6	Disabled ▼
<input type="checkbox"/>	GE-7	Disabled ▼
<input type="checkbox"/>	GE-8	Disabled ▼
<input type="checkbox"/>	GE-9	Disabled ▼
<input type="checkbox"/>	GE-10	Disabled ▼
<input type="checkbox"/>	GE-11	Disabled ▼
<input type="checkbox"/>	GE-12	Disabled ▼
<input type="checkbox"/>	GE-13	Disabled ▼

Operation	<u>Modify:</u> 1. Select Port check box : 2. Select Select mode Disabled/ Enabled, click "Modify" button to apply change.
Field	Description
Ext-TPID (Hex)	The range is from 1~FFFF (0x1 to 0xffff) Default is 0x8100
VLAN Stacking Port	Port: GE-1 ~ MAX Number of Port.
VLAN Stacking	Enable/Disable VLAN Stacking (QinQ) mode. Default value is disable.

2.3.7 MAC Learning & Forwarding

2.3.7.1 Fdb Static

Configuration / Fdb Static

Port VID
 MAC : : : : :

Delete Type

Previous Command Result: Normal

	Port	VID	MAC Address
--	------	-----	-------------

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> 1. Setting Port, VID and MAC Address 2. Click "Create New" to create a new data <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select a delete type "All/Port/VID/Selected" 2. If delete type is "Port", then select a port from list. 3. If delete type is "VID", then input a VID. 4. If delete type is "Selected", then select row(s) to be deleted. 5. Click "Delete" button to delete.
Field	Description
Port	Giga Port: GE-1~MAX Number of Port
VID	Range: 1~4094. Default value is 1.
MAC Address	Format XX:XX:XX:XX:XX:XX

2.3.7.2 Aging Time

Configuration /Aging Time	
<input type="button" value="Modify"/>	
Previous Command Result: Normal	
Aging Time(Sec)	300

Operation	<u>Modify:</u> 1. Modify the configuration 2. Click “Modify” button to apply the change
Field	Description
Aging Time(Sec)	Range: 10~1000000, Default is 300 seconds.

2.3.8 Spanning Tree Protocol (STP)

2.3.8.1 STP Bridge

Status:

Configuration / STP Bridge

Previous Command Result: Normal

STP	Disabled	Enabled/Disabled, default=Disabled
Protocol	STP	STP/RSTP/MSTP, Default=STP
Priority	0x8000(32768)	0~61440 in step 4096, default=0x8000
Bridge Max Age	20	6~40 seconds, default=20. Configure value for this system, when this switch is root bridge.
Bridge Hello Time	2	1~10 seconds, default=2. Configure value for this system, when this switch is root bridge.
Bridge Forward Delay	15	4~30 seconds, default=15. Configure value for this system, when this switch is root bridge.
BPDU Filter	Deny	Deny/Flooding when STP is Disable
Region Name		STP Region Name. Default value is empty.
Revision Level	0	MST revision level. Default value is 0.
Time since last TC	0	seconds, Time since LAST topology change.
Topology Changes	0	the total number of topology changes
Designate Root (hex)	8000-001122334455	Root Priority + Root Bridge MAC
Bridge ID (hex)	8000-001122334455	Priority + Bridge MAC
Root Cost	0	the cost of the path to the root

Config:

Configuration / STP Bridge

Previous Command Result: Normal

Status
Config

STP	Disabled ▾	Enabled/Disabled, default=Disabled
Protocol	STP ▾	STP/RSTP/MSTP, Default=STP
Priority	0x8000(32768) ▾	0~61440 in step 4096, default=0x8000
Bridge Max Age	<input type="text" value="20"/>	6~40 seconds, default=20
Bridge Hello Time	<input type="text" value="2"/>	1~10 seconds, default=2
Bridge Forward Delay	<input type="text" value="15"/>	4~30 seconds, default=15
BPDU Filter	Deny ▾	Deny/Flooding when STP is Disable
Region Name	<input type="text"/>	STP Region Name. Default value is empty.
Revision Level	<input type="text" value="0"/>	MST revision level. Default value is 0.

The MaxAge, HelloTime and ForwardDelay times are constrained as follows:
 $2 \times (\text{ForwardDelay} - 1) \geq \text{MaxAge} \geq 2 \times (\text{HelloTime} + 1)$

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Select "Config" page. 2. Modify the configuration. 3. Clicks "Modify" button to apply change. <p><u>Refresh:</u></p> <p>Click "Refresh" button to get current data.</p>
Field	Description
STP	Specify whether or not the system is to implement the spanning tree protocol. Range: Enabled/Disabled, default=Disabled.
Protocol	RSTP (IEEE 802.1W), STP (IEEE 802.1D) Option: STP/RSTP, Default=STP.

Priority	<p>Sets the spanning tree protocol priority. The lower the priority number, the more significant the bridge becomes in protocol terms. Where two bridges have the same priority, their MAC address is compared and the smaller MAC address is treated as the most significant.</p> <p>Range: 0~61440 in step 4096, Default is default=0x8000(32768).</p>
Bridge MaxAge	<p>Sets the maximum age of received spanning tree protocol information before it is discarded. This is used when the bridge is or is attempting to become the root bridge.</p> <p>Range: 6~40 seconds, Default=20 seconds.</p>
Bridge Hello Time	<p>Sets the time after which the spanning tree process sends notification of topology changes to the root bridge. This is used when the bridge is or is attempting to become the root bridge.</p> <p>Range: 1~10 seconds, Default=2 seconds.</p>
Bridge Forward Delay	<p>Sets the time that the bridge spends in listening or learning states when the bridge is or is attempting to become the root bridge.</p> <p>Range: 4~30 seconds, Default=15 seconds.</p> <p>The maxage, hellotime and forwarddelay times are constrained as follows:</p> $2 \times (\text{forwarddelay} - 1) \geq \text{maxage}$ $\text{maxage} \geq 2 \times (\text{hellotime} + 1)$ <p>For example, the default settings are:</p> $2 \times (15 - 1) \geq 20$ $20 \geq 2 \times (2 + 1)$
BPDU Filter	<p>Deny/Flooding when STP is Disable.</p>

2.3.8.2 STP Port

Major:

Configuration / STP Port

Previous Command Result: Normal

	Port	Priority	Edge	State	STP Port	Path Cost
<input type="checkbox"/>	GE-1	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-2	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-3	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-4	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-5	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-6	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-7	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-8	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-9	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-10	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-11	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-12	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000
<input type="checkbox"/>	GE-13	0x80(128) ▼	Disabled ▼	Forwarding	Enabled ▼	20000

Minor:

Configuration / STP Port

Modify Refresh

Previous Command Result: Normal

Major Minor

Port	Designated				Forward Transitions
	Root (hex)	Cost	Bridge (hex)	Port (hex)	
GE-1	0000-000000000000	0	0000-000000000000	8001	0
GE-2	0000-000000000000	0	0000-000000000000	8002	0
GE-3	0000-000000000000	0	0000-000000000000	8003	0
GE-4	0000-000000000000	0	0000-000000000000	8004	0
GE-5	0000-000000000000	0	0000-000000000000	8005	0
GE-6	0000-000000000000	0	0000-000000000000	8006	0
GE-7	0000-000000000000	0	0000-000000000000	8007	0
GE-8	0000-000000000000	0	0000-000000000000	8008	0
GE-9	0000-000000000000	0	0000-000000000000	8009	0
GE-10	0000-000000000000	0	0000-000000000000	800A	0
GE-11	0000-000000000000	0	0000-000000000000	800B	0
GE-12	0000-000000000000	0	0000-000000000000	800C	0

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Select "Major" page 2. Select row(s) to be changed by checking up checkbox 3. Modify the configuration 4. Click "Modify" button to apply change. <p><u>Refresh:</u></p> <p>Click "Refresh" button to get current data.</p>
Field	Description
Port	Range: GE-1 ~ MAX Number of Port
Priority	<p>Range: 0~240 in step 16,</p> <p>Default is default=0x80(128).</p> <p>Default is default=0x80(128).</p>

Edge	Range: Enabled/Disabled, default=Disabled.
State	<p><i>Range:</i> Disabled/ Blocking/ Listening/ Learning/ Forwarding/ Broken</p> <p><i>Disabled :</i> For ports which are disabled (see dot1dStpPortEnable), this object will have a value of disabled.</p> <p><i>Blocking:</i> The port will go into a blocking state at the time of selection process, when a switch receives a BPDU on a port that indicates a better path to the root switch, and if a port is not a root port or a designated port.</p> <p><i>Listening:</i> After blocking state, a root port or a designated port will move to a listening state. All other ports will remain in a blocked state. During the listening state the port discards frames received from the attached network segment and it also discards frames switched from another port for forwarding. At this state, the port receives BPDUs from the network segment and directs them to the switch system module for processing. After a forward time delay (The default forward delay time is 15 seconds.), the switch port moves from the listening state to the learning state.</p> <p><i>Learning:</i> A port changes to learning state after listening state. During the learning state, the port is listening for and processing BPDUs. In the listening state, the port begins to process user frames and start updating the MAC address table. But the user frames are not forwarded to the destination. After a forward time delay (The default forward delay time is 15 seconds), the switch port moves from the learning state to the forwarding state.</p> <p><i>Forwarding:</i> A port in the forwarding state forwards frames across the attached network segment. In a forwarding state, the port will process BPDUs, update its MAC Address table with frames that it receives, and forward user traffic through the port. Forwarding State is the normal state. Data and configuration messages are passed through the port, when it is in forwarding state.</p> <p><i>Broken:</i> If the bridge has detected a port that is malfunctioning it will place that port into the broken state.</p>
STP Port	Range: Enabled/ Disabled, Default is Enabled.
Path Cost	Range: 1 ~ 200000000, Default is 20000.
Designated Root	<p>The parameter is the unique Bridge Identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the Designated Bridge for the segment to which the port is attached.</p> <p>Format : Root bridge priority + Root Bridge MAC address</p>
Designated Cost	The parameter is the path cost of the Designated Port of the segment connected to this port. This value is compared to the Root Path Cost field in received BPDUs.

Designated Bridge	<p>The parameter is the Bridge Identifier of the bridge which this port considers to be the Designated Bridge for this port's segment.</p> <p>Format: Designated bridge priority + Designated Bridge MAC address. [0x8000-001122334455]</p>
Designated Port	<p>The parameter (dot1dStpPortDesignatedPort) is the Port Identifier of the port of the Designated Bridge for this port's segment.</p> <p>Format: Designated port priority + Designated Port ID. [0x8001]</p>
Forward Transitions	<p>Forward Transitions count.</p>

2.3.8.3 MSTP Bridge

Configuration / MSTP Bridge

ID
 MSTI Name
 Priority

MSTI Name

VID -

Previous Command Result: Normal

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> Fill "MSTI Name" and select "Priority" fields. (Default MSTI Name will be set when name is not input.) Click "Create New" button to create new data. Max MSTI number is 10. <p><u>Delete:</u></p> <ol style="list-style-type: none"> Select "MSTI Name". Click "Delete" button to the Instance. <p><u>Modify:</u></p> <ol style="list-style-type: none"> Select "MSTI Name" from list. Modify "MSTI Name", "VID" or select "Priority". Click "Modify" button. <p><u>Add or Remove VID:</u></p> <ol style="list-style-type: none"> Fill start VID and end VID. Click "Add" or "Remove" button to edit VID range. Or input the VID range with the format in the VID cell.
Field	Description
ID	MSTI ID, value range is 1~10.
MSTI Name	MSTI Name, 1~30 characters. Can not be empty, if empty, system will give default name.
VID Start	VLAN ID, Range 1-4094.
VID End	VLAN ID, Range 1-4094.

VID	<p>VLAN ID, Format: 2-5,7,100-4094.</p> <p>Accept number, space, dash and comma.</p>
Priority	<p>MSTI's priority.</p> <p>The lower the priority number, the more significant the bridge becomes in protocol terms. Where two bridges have the same priority, their MAC address is compared and the smaller MAC address is treated as the most significant.</p> <p>Range: 0~61440 in step 4096, Default is default=0x8000(32768).</p>
Designated Root	<p>The parameter is the unique Bridge Identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the Designated Bridge for the segment to which the port is attached.</p> <p>Format: MSTI's Root bridge priority + Root Bridge MAC address</p>
Bridge ID	<p>The parameter is the Bridge Identifier of the bridge which this port considers to be the Designated Bridge for this port's segment.</p> <p>Format: MSTI's priority + Bridge MAC address. [0x8000-001122334455]</p>
Root Cost	<p>The parameter is the path cost of the MSTI's Designated Port of the segment connected to this port. This value is compared to the Root Path Cost field in received BPDUs.</p>
Root Port	<p>The parameter is the MSTI's Port Identifier of the port of the Designated Bridge for this port's segment.</p> <p>[0x8001]</p>

2.3.8.4 MSTP Port

Configuration / MSTP Port

MSTI Name

Previous Command Result: Normal

<input type="checkbox"/>	Port	Priority	Path Cost	Role	State	Designated				
						Root (hex)	Cost	Bridge (hex)	Port (hex)	

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Select a row item to selected 2. Set or select the following fields. 3. Click "Modify" button.
Field	Description
Port	Range: GE-1 ~ MAX Number of Port
Priority	Range: 0~240 in step 16, Default is default=0x80(128).
Path Cost	Range: 1 ~ 200000000, Default is 20000.
Role	Range: Disabled/ Root/ Designated/ Alternate/ Backup/ Master/ Unknown.
State	<p><i>Range:</i> Disabled/ Blocking/ Listening/ Learning/ Forwarding/ Broken</p> <p><i>Disabled:</i> For ports which are disabled (see dot1dStpPortEnable), this object will have a value of disabled.</p> <p><i>Blocking:</i> The port will go into a blocking state at the time of selection process, when a switch receives a BPDU on a port that indicates a better path to the root switch, and if a port is not a root port or a designated port.</p> <p><i>Listening:</i> After blocking state, a root port or a designated port will move to a listening state. All other ports will remain in a blocked state. During the listening state the port discards frames received from the attached network segment and it also discards frames switched from another port for forwarding. At this state, the port receives BPDUs from the network segment and directs them to the switch system module for processing. After a forward time delay (The default forward delay time is 15 seconds.), the switch port moves from the listening state to the learning state.</p> <p><i>Learning:</i> A port changes to learning state after listening state. During the learning state, the port is listening for and processing BPDUs. In the listening state, the port</p>

	<p>begins to process user frames and start updating the MAC address table. But the user frames are not forwarded to the destination. After a forward time delay (The default forward delay time is 15 seconds), the switch port moves from the learning state to the forwarding state.</p> <p><i>Forwarding:</i> A port in the forwarding state forwards frames across the attached network segment. In a forwarding state, the port will process BPDUs, update its MAC Address table with frames that it receives, and forward user traffic through the port. Forwarding State is the normal state. Data and configuration messages are passed through the port, when it is in forwarding state.</p> <p><i>Broken:</i> If the bridge has detected a port that is malfunctioning it will place that port into the broken state.</p>
Designated Root	<p>The parameter is the unique Bridge Identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the Designated Bridge for the segment to which the port is attached.</p> <p>Format : Root bridge priority + Root Bridge MAC address</p>
Designated Cost	<p>The parameter is the path cost of the Designated Port of the segment connected to this port. This value is compared to the Root Path Cost field in received BPDUs.</p>
Designated Bridge	<p>The parameter is the Bridge Identifier of the bridge which this port considers to be the Designated Bridge for this port's segment.</p> <p>Format: Designated bridge priority + Designated Bridge MAC address. [0x8000-001122334455]</p>
Designated Port	<p>The parameter (dot1dStpPortDesignatedPort) is the Port Identifier of the port of the Designated Bridge for this port's segment.</p> <p>Format: Designated port priority + Designated Port ID. [0x8001]</p>

2.3.9 Policer

2.3.9.1 Policer Ingress Color

Configuration / Policer Ingress Color

Previous Command Result: Normal

Color Aware Mode:

CoS Number	Color
CoS 0	Green ▼
CoS 1	Green ▼
CoS 2	Green ▼
CoS 3	Green ▼
CoS 4	Green ▼
CoS 5	Green ▼
CoS 6	Green ▼
CoS 7	Green ▼

Operation	Modify: <ol style="list-style-type: none"> 1. Select "Color Blind" or "Color Aware" 2. Modify the configuration 3. Click "Modify" button to apply change
Field	Description
Color Aware Mode	Color Blind/ Color Aware. Default is Color Blind.
CoS 0	Green/Yellow/Red, default is green
CoS 1	Green/Yellow/Red, default is green
CoS 2	Green/Yellow/Red, default is green
CoS 3	Green/Yellow/Red, default is green
CoS 4	Green/Yellow/Red, default is green
CoS 5	Green/Yellow/Red, default is green

CoS 6	Green/Yellow/Red, default is green
CoS 7	Green/Yellow/Red, default is green

2.3.9.2 Policer Color Marking

Configuration / Policer Color Marking

Previous Command Result: Normal

Type	Number
CoS Green	CoS <input style="width: 40px;" type="text" value="7"/>
CoS Yellow	CoS <input style="width: 40px;" type="text" value="5"/>
CoS Red	CoS <input style="width: 40px;" type="text" value="3"/>
DSCP Green	DSCP <input style="width: 40px;" type="text" value="56"/>
DSCP Yellow	DSCP <input style="width: 40px;" type="text" value="40"/>
DSCP Red	DSCP <input style="width: 40px;" type="text" value="24"/>

Operation	<u>Modify:</u> <ol style="list-style-type: none"> 1. Modify the configuration 2. Click "Modify" button to apply change
Field	Description
Color Aware Mode	Color Blind/ Color Aware. Default is Color Blind.
CoS Green	Range: 0~7, Default is 7
CoS Yellow	Range: 0~7, Default is 5
CoS Red	Range: 0~7, Default is 3
DSCP Green	Range: 0~63, Default is 56
DSCP Yellow	Range: 0~63, Default is 40
DSCP Red	Range: 0~63, Default is 24

2.3.9.3 Ingress Policer

Configuration / Ingress Policer

Previous Command Result: Normal

	Port	Mode	Exceed Action	PIR (Kbps)	PBS (Bytes)	CIR (Kbps)	CBS (Bytes)
<input type="checkbox"/>	GE-1	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-2	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-3	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-4	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-5	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-6	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-7	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-8	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-9	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-10	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-11	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-12	Disabled ▾	Drop ▾	1000000	10000	500000	10000
<input type="checkbox"/>	GE-13	Disabled ▾	Drop ▾	1000000	10000	500000	10000

Operation	<u>Modify:</u> 1. Modify the configuration 2. Click "Modify" button to apply change
Field	Description
Port	Bridge port number. GE-1 ~ MAX Number of Port.
Mode	Ingress Policer Mode Enabled/Disabled, default is Disabled.
Exceed Action	Value range is Drop/CoS Mark/DSCP Mark, default is Drop.
PIR (Kbps)	Value range is 1~1000000 Kbps, default is 1000000 Kbps.
PBS (Bytes)	Value range is 1~65535 Bytes, default is 10000 Bytes.
CIR (Kbps)	Value range is 1~1000000 Kbps, default is 500000 Kbps.
CBS (Bytes)	Value range is 1~65535 Kbps, default is 10000 Kbps.

2.3.10 ACL

2.3.10.1 Profile

Configuration / ACL Profile

Name

Previous Command Result: Normal

	Index	Name
	1	default

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> 1. Fill ACL Profile Name, the max length is 31. 2. Click "Create New" button to Create New ACL profile. <p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Select checkbox of profile to be changed. 2. Modify the "Name" of profile 3. Click "Modify" button to apply change <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select one row for delete 2. Click "Delete" button to delete data
Field	Description
Index	ACL Profile Index, range is 1 ~ MAX SIZE of profile, Profile 1 is a default profile, can not be modified
Name	ACL Profile Name, the max length 31 characters.

2.3.10.2 Entry

Configuration / ACL Entry

Previous Command Result: Normal

Profile Index: Name:

Entry Index	Type	Data	Modify
-	-	Profile Index 1 is default, No entry data.	NA

Create New

Configuration / ACL Entry - Create

Profile Index: Name:

Entry Index: Type:

VLAN ID	<input type="text"/>
Source MAC	<input type="text" value=": : : : : :"/>
Source MAC Mask	<input type="text" value=": : : : : :"/>
Destination MAC	<input type="text" value=": : : : : :"/>
Destination MAC Mask	<input type="text" value=": : : : : :"/>
Ether Type(Hex)	0x <input type="text"/>
Action	<input type="text" value="Deny"/>

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> Click "Create New" button to open page of Create New entry. Fill ACL Entry Index field and select Type. Fill fields and then click "Apply" to create or click "Cancel" to cancel. <p><u>Modify:</u></p> <ol style="list-style-type: none"> Modify field data. Click "Modify" button to open modification page. Fill Entry Index field and select Type. Fill fields and then click "Apply" to modify or click "Cancel" to cancel. <p><u>Delete:</u></p> <ol style="list-style-type: none"> Select one row. Click "Delete" button to delete data.
Field	Description
Profile Index	Range: 1~20
Entry Index	Range: 1~32
Type	MAC/IPV4/L4PORT/TOS
Type = MAC	
VLAN ID	ACL Profile VLAN ID, value range is 1~4094.
Source MAC	ACL Profile Source MAC format XX:XX:XX:XX:XX:XX, each field value range 0~FF
Source MAC Mask	ACL Profile Source MAC Mask format XX:XX:XX:XX:XX:XX, each field value range 0~FF
Destination MAC	ACL Profile Destination MAC format XX:XX:XX:XX:XX:XX, each field value range 0~FF
Destination MAC Mask	ACL Profile Destination MAC Mask format XX:XX:XX:XX:XX:XX, each field value range 0~FF
Ether Type (Hex)	Value range 0,05DD~FFFF,format XXXX
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.
Type = IPV4	
Source IP	Format XXX:XXX:XXX:XXX, each field value range 0~255.
Source IP Mask	Format XXX:XXX:XXX:XXX, each field value range 0~255.
Destination IP	Format XXX:XXX:XXX:XXX, each field value range 0~255.

Destination IP Mask	Format XXX:XXX:XXX:XXX, each field value range 0~255.
Protocol	Value range 0~255.
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.
Type = L4PORT	
Protocol	Value range TCP/UDP.
Source IP	Format XXX:XXX:XXX:XXX, each field value range 0~255.
Source IP Mask	Format XXX:XXX:XXX:XXX, each field value range 0~255.
Port	Source IP Port, value range 0~65535.
Destination IP	Format XXX:XXX:XXX:XXX, each field value range 0~255.
Destination IP Mask	Format XXX:XXX:XXX:XXX, each field value range 0~255.
Port	Source IP Port, value range 0~65535.
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.
Type = ToS	
Source IP	Format XXX.XXX.XXX.XXX, each field value range 0~255.
Source IP Mask	Format XXX.XXX.XXX.XXX, each field value range 0~255.
Destination IP	Format XXX.XXX.XXX.XXX, each field value range 0~255.
Destination IP Mask	Format XXX.XXX.XXX.XXX, each field value range 0~255.
ToS Type	Value range Precedence/ToS/DSCP/Any,0~7 in Precedence,0~15 in ToS,0~63 in DSCP.
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.

2.3.10.3 Binding

Configuration / ACL Binding

Previous Command Result: Normal

Port	Profile Index	Default ACL Rule	Modify
GE-1	1	Permit	Modify
GE-2	1	Permit	Modify
GE-3	1	Permit	Modify
GE-4	1	Permit	Modify
GE-5	1	Permit	Modify
GE-6	1	Permit	Modify
GE-7	1	Permit	Modify
GE-8	1	Permit	Modify
GE-9	1	Permit	Modify
GE-10	1	Permit	Modify
GE-11	1	Permit	Modify

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Port	Giga Port, GE-1 ~ MAX Number of Port.
Profile Index	ACL Profile Index, range is 1 ~ MAX SIZE of profile, default is 1.
Default ACL Rule	ACL Default Rule, could be Permit/Deny, default is Permit.

2.3.10.4 Mirror Analyzer Port

Configuration / Mirror Analyzer Port

Previous Command Result: Normal

Analyzer Mode	Disabled ▼
Analyzer Port	GE-1 ▼

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Analyzer Mode	Enabled/Disabled, default is Disabled.
Analyzer Port	Giga Port GE-1 ~ MAX Number of Port, default is GE-1.

2.3.11 Shaper

2.3.11.1 Port Shaper

Configuration / Port Shaper			
Previous Command Result: Normal			
Port	Mode	Rate (Kbps)	Modify
GE-1	Disabled ▼	1000000	Modify
GE-2	Disabled ▼	1000000	Modify
GE-3	Disabled ▼	1000000	Modify
GE-4	Disabled ▼	1000000	Modify
GE-5	Disabled ▼	1000000	Modify
GE-6	Disabled ▼	1000000	Modify
GE-7	Disabled ▼	1000000	Modify
GE-8	Disabled ▼	1000000	Modify
GE-9	Disabled ▼	1000000	Modify
GE-10	Disabled ▼	1000000	Modify
GE-11	Disabled ▼	1000000	Modify

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Port	Bridge port, range is 1 ~ MAX Number of Port.
Mode	Enabled/Disabled, default is Disabled.
Rate (Kbps)	Rate range is 1~1000000 Kbps, default is 1000000 Kbps.

2.3.11.2 Queue Shaper

Configuration / Queue Shaper										
Previous Command Result: Normal										
ID	Mode	Queue 0~3 (Rate)				Queue 4~7 (Rate)				Modify
GE-1	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-2	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-3	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-4	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-5	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-6	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-7	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-8	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-9	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-10	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-11	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-12	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-13	Disabled ▾	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
ID	Bridge port, range is 1 ~ MAX Number of Port.
Mode	Option: Enabled/Disabled, default is Disabled.
Queue 0~3 (Rate)	Queue 0~3, rate range is 1~1000000 Kbps, default is 1000000 Kbps.
Queue 4~7 (Rate)	Queue 4~7, rate range is 1~1000000 Kbps, default is 1000000 Kbps.

2.3.12 Queue & Scheduler

2.3.12.1 CoS & Queue Mapping

Configuration / CoS & Queue Mapping

Previous Command Result: Normal

CoS Number	Queue Number
CoS 0	Queue 0 ▾
CoS 1	Queue 1 ▾
CoS 2	Queue 2 ▾
CoS 3	Queue 3 ▾
CoS 4	Queue 4 ▾
CoS 5	Queue 5 ▾
CoS 6	Queue 6 ▾
CoS 7	Queue 7 ▾

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
CoS 0	Queue 0~7, default is Queue 0.
CoS 1	Queue 0~7, default is Queue 1.
CoS 2	Queue 0~7, default is Queue 2.
CoS 3	Queue 0~7, default is Queue 3.
CoS 4	Queue 0~7, default is Queue 4.
CoS 5	Queue 0~7, default is Queue 5.
CoS 6	Queue 0~7, default is Queue 6.
CoS 7	Queue 0~7, default is Queue 7.

2.3.12.2 Scheduler Profile

Configuration / Scheduler Profile

Previous Command Result: Normal

Index	Mode	Queue 0~3 Weight				Queue 4~7 Weight				Modify
1	SP	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	NA
2	SP ▼	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="button" value="Modify"/>
3	SP ▼	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="button" value="Modify"/>
4	SP ▼	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="button" value="Modify"/>
5	SP ▼	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="button" value="Modify"/>
6	SP ▼	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="button" value="Modify"/>
7	SP ▼	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="button" value="Modify"/>
8	SP ▼	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="button" value="Modify"/>

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Index	Value range is 1~8.
Mode	Option: SP/SPWRR/WRR, default is SP.
Queue 0~3 weight	Queue 0~3 Weight, range is 1~255, default is 1.
Queue 4~7 weight	Queue 4~7 Weight, range is 1~255, default is 1.

2.3.12.3 Binding

Configuration / Scheduler Binding		
Previous Command Result: Normal		
Port	Profile Index	Modify
GE-1	1	Modify
GE-2	1	Modify
GE-3	1	Modify
GE-4	1	Modify
GE-5	1	Modify
GE-6	1	Modify
GE-7	1	Modify
GE-8	1	Modify
GE-9	1	Modify
GE-10	1	Modify
GE-11	1	Modify
GE-12	1	Modify
GE-13	1	Modify

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Port	Giga Port GE-1 ~ MAX Number of Port.
Profile Index	Range is 1~8, default is 1.

2.3.13 Storm Control

2.3.13.1 Unknown Unicast Control

Configuration / Unknown Unicast Control		
Previous Command Result: Normal		
Port	Mode	Modify
GE-1	Forward	Modify
GE-2	Forward	Modify
GE-3	Forward	Modify
GE-4	Forward	Modify
GE-5	Forward	Modify
GE-6	Forward	Modify
GE-7	Forward	Modify
GE-8	Forward	Modify
GE-9	Forward	Modify
GE-10	Forward	Modify

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Port	Giga Port GE-1 ~ MAX Number of Port.
Mode	<p>Forward -> Forward unknown unicast packet (default)</p> <p>Block -> Block unknown unicast packet</p> <p>Rate limit -> Control rate.</p> <p>Rate range is 1~1000000 Kbps, default is 1000000 Kbps.</p>

2.3.13.2 Unknown Multicast Control

Configuration / Unknown Multicast Control

Previous Command Result: Normal

Port	Mode	Modify
GE-1	Forward ▼	Modify
GE-2	Forward ▼	Modify
GE-3	Forward ▼	Modify
GE-4	Forward ▼	Modify
GE-5	Forward ▼	Modify
GE-6	Forward ▼	Modify
GE-7	Forward ▼	Modify
GE-8	Forward ▼	Modify
GE-9	Forward ▼	Modify
GE-10	Forward ▼	Modify

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Port	Giga Port GE-1 ~ MAX Number of Port.
Mode	Forward -> Forward unknown unicast packet (default) Block -> Block unknown unicast packet Rate limit -> Control rate. Rate range is 1~1000000 Kbps, default is 1000000 Kbps.

2.3.13.3 Broadcast Control

Configuration / Broadcast Control

Previous Command Result: Normal

Port	Mode	Modify
GE-1	Forward ▼	Modify
GE-2	Forward ▼	Modify
GE-3	Forward ▼	Modify
GE-4	Forward ▼	Modify
GE-5	Forward ▼	Modify
GE-6	Forward ▼	Modify
GE-7	Forward ▼	Modify
GE-8	Forward ▼	Modify
GE-9	Forward ▼	Modify
GE-10	Forward ▼	Modify

Operation	<u>Modify:</u> 1. Modify the configuration. 2. Click "Modify" button to apply change.
Field	Description
Port	Giga Port GE-1 ~ MAX Number of Port.
Mode	Forward -> Forward broadcast packet (default) Block -> Block broadcast packet Rate limit -> Control rate. Rate range is 1~1000000 Kbps, default is 1000000 Kbps.

2.3.13.4 Unknown Unicast by VLAN

Configuration / Unknown Unicast by VLAN

VLAN ID
 Mode ▾

Previous Command Result: Normal

Block VLAN ID

Operation	<u>Modify:</u> 1. Fill VLAN ID 2. Change Mode 3. Click "Modify" button to apply change
Field	Description
VLAN ID	Value range is 1~4094.
Mode	Forward -> Forward unicast packet (default). Block -> Block unicast packet.
Block VLAN ID	All blocked VLAN ID

2.3.13.5 Unknown Multicast by VLAN

Configuration / Unknown Multicast by VLAN

VLAN ID
 Mode ▼

Previous Command Result: Normal

Block VLAN ID

Operation	<u>Modify:</u> 1. Fill VLAN ID 2. Change Mode 3. Click "Modify" button to apply change
Field	Description
VLAN ID	Value range is 1~4094.
Mode	Forward -> Forward unknown multicast packet (default). Block -> Block unknown multicast packet.
Block VLAN ID	All blocked VLAN ID

2.3.13.6 Broadcast by VLAN

Configuration / Broadcast by VLAN

VLAN ID
 Mode ▾

Previous Command Result: Normal

Block VLAN ID

Operation	<u>Modify:</u> 1. Fill VLAN ID 2. Change Mode 3. Click "Modify" button to apply change
Field	Description
VLAN ID	Value range is 1~4094.
Mode	Forward -> Forward broadcast packet (default). Block -> Block broadcast packet.
Block VLAN ID	All blocked VLAN ID

2.3.14 IGMP

2.3.14.1 ACL Profile

Configuration / IGMP ACL Profile

Previous Command Result: Normal

	Index	Default Rule
<input type="checkbox"/>	1	Permit

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> 1. Click "Create New" button to create a default profile. 2. Click "Modify" button to modify existing profile. <p><u>Modify (allow multiple selection):</u></p> <ol style="list-style-type: none"> 1. Check up Profile Index and select Default Rule for profile. 2. Click "Modify" button to modify IGMP ACL Profile. <p><u>Delete:</u></p> <p>Click Delete button to delete profile. (also allow multiple delete)</p> <p>If profile is in use, delete action will be failed.</p>
Field	Description
Profile Index	IGMP ACL Profile Index: 1~15, but profile 1 is default existing and read-only.
Default Rule	IGMP ACL Default rule: Permit/Deny. Default is permit.

2.3.14.2 ACL Entry

Configuration / IGMP ACL Entry

Create New
Delete

Previous Command Result: Normal

Profile Index 1 ▼

<input type="checkbox"/>	Entry Index	SVLAN	Start/End IP	Permission Rule
	-	-	Profile Index 1 is default, No entry data.	NA

Operation	<p><u>Create:</u></p> <ol style="list-style-type: none"> 1. Click "Create New" button to open new page for create. 2. Fill Entry Index, SVLAN, Start IP, End IP and select Permission Rule. 3. Click "Apply" button to create IGMP ACL entry or click "Cancel" to cancel create. <p><u>Delete:</u></p> <p>Check up target entry, click Delete button to delete them. (also allow multiple delete)</p> <p><u>Refresh:</u></p> <ol style="list-style-type: none"> 1. Select Profile index. 2. Click "Refresh" button to refresh current IGMP ACL profile entry(s).
Field	Description
Profile Index	IGMP ACL profile index. Index range is 2~15.
Entry Index	IGMP ACL entry index. Range is 1~32.
SVLAN	IGMP ACL VLAN: VLAN to be Permitted/Denied, 0 is any VLAN.
Start IP ~ End IP	IGMP ACL Start IP address. Range: 224.0.1.0 - 239.255.255.255 Start IP address <= End IP address
Permission Rule	IGMP ACL entry parameter. Default is Permit.

2.3.14.3 ACL Binding

Configuration / IGMP ACL Binding

Previous Command Result: Normal

<input type="checkbox"/>	Port	Profile Index	Max Channel
<input type="checkbox"/>	GE-1	1 ▼	512
<input type="checkbox"/>	GE-2	1 ▼	512
<input type="checkbox"/>	GE-3	1 ▼	512
<input type="checkbox"/>	GE-4	1 ▼	512
<input type="checkbox"/>	GE-5	1 ▼	512
<input type="checkbox"/>	GE-6	1 ▼	512
<input type="checkbox"/>	GE-7	1 ▼	512
<input type="checkbox"/>	GE-8	1 ▼	512
<input type="checkbox"/>	GE-9	1 ▼	512
<input type="checkbox"/>	GE-10	1 ▼	512
<input type="checkbox"/>	GE-11	1 ▼	512
<input type="checkbox"/>	GE-12	1 ▼	512
<input type="checkbox"/>	GE-13	1 ▼	512

Operation	<u>Modify:</u> 1. Check up the rows to be modified, select ACL Profile and set Max channel. 2. Click "Modify" button to change IGMP ACL Binding.
Field	Description
Port	GE Port: 1 ~ MAX Number of Port.
Profile Index	IGMP ACL profile index: 1~15. Default is 1.
Max channel	Port Max channel. Range is 1~512. Default is 512.

2.3.14.4 MVR Profile

Configuration / IGMP MVR Profile

Previous Command Result: Normal

	Index
1	

Operation	<p><u>Create:</u></p> <ol style="list-style-type: none"> Click "Create New" button to create a new profile. <p><u>Modify:</u></p> <ol style="list-style-type: none"> Check up Profile Index. Click the Profile Index hyper link to open page for profile entry modification. <p>[or click "Delete" delete Profile, allow multiple delete. If profile is in use, delete action will be failed.]</p>
Field	Description
Profile Index	Profile 1 is default existing and read-only, IGMP MVR Profile 2~15 allow to create.

2.3.14.5 MVR Entry

Configuration / IGMP MVR Entry

Create New
Delete

Previous Command Result: Normal

Profile Index 1 ▼

	Entry Index	SVLAN	Start/End IP
	-	-	Profile Index 1 is default, No entry data.

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> 1. Click "Create New" button to open new page for create. 2. Fill Entry Index, SVLAN, Start IP, End IP. 3. Click "Apply" button to create IGMP MVR entry or click "Cancel" to cancel create. <p><u>Delete:</u></p> <p>Check up target entry, click Delete button to delete them. (also allow multiple delete)</p> <p><u>Refresh:</u></p> <ol style="list-style-type: none"> 1. Change the Profile Index to refresh the data.
Field	Description
Profile Index	IGMP MVR profile index. Index range is 2~15.
Entry Index	IGMP MVR entry index. Range is 1~32.
SVLAN	IGMP MVR VLAN: VLAN to be Permitted/Denied, 0 is any VLAN..
Start IP ~ End IP	IGMP MVR Start IP address. Range: 224.0.1.0 - 239.255.255.255 Start IP address <= End IP address

2.3.14.6 MVR Binding



Configuration / IGMP MVR Binding

Previous Command Result: Normal

<input type="checkbox"/>	Port	Profile Index
<input type="checkbox"/>	GE-1	1 ▼
<input type="checkbox"/>	GE-2	1 ▼
<input type="checkbox"/>	GE-3	1 ▼
<input type="checkbox"/>	GE-4	1 ▼
<input type="checkbox"/>	GE-5	1 ▼
<input type="checkbox"/>	GE-6	1 ▼
<input type="checkbox"/>	GE-7	1 ▼
<input type="checkbox"/>	GE-8	1 ▼
<input type="checkbox"/>	GE-9	1 ▼
<input type="checkbox"/>	GE-10	1 ▼
<input type="checkbox"/>	GE-11	1 ▼
<input type="checkbox"/>	GE-12	1 ▼
<input type="checkbox"/>	GE-13	1 ▼
<input type="checkbox"/>	GE-14	1 ▼

Operation	<u>Modify:</u> 1. Check up the rows to be modified, select MVR Profile. 2. Click "Modify" button to change IGMP MVR Binding.
Field	Description
Port	GE Port: 1 ~ MAX Number of Port
Profile Index	IGMP MVR profile index. Value range is 1~15. Default is 1.

2.3.14.7 VLAN Interface

Configuration / IGMP / VLAN Interface  

Related: [Group Member Status](#) [Group Membership Source Fdb](#) [Static Group Membership](#)

Refresh Create Delete Modify

Previous Command Result: Normal

NO	VID	Version (RunVersion)	Mode	Leave Mode	Robustness (RunValue)	Query Interval (RunValue) (sec)	Max Response Time(sec)	Group Membership Time(sec)	Last Member Query Interval(sec)	Last Member Query Count	Router Port	V2 Present Time(sec)	Querier Source IP Address
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Create

Configuration / IGMP / VLAN Interface-Create

Apply Cancel

IGMP Version	IGMPv2
VID	1 (1~4094)
IGMP Mode	Normal Snooping
IGMP Leave Mode	Normal Leave
Robustness	2
Query Interval(sec)	125 (1~1800)
Max Response Time(0.1 sec)	100 (1~255)
Last Member Query interval(0.1 sec)	1 (1~255)
Last Member Query Count	2
Router Port	GE-1
Querier Source IP Address	0 . 0 . 0 . 0

The Query Interval and Max Response Time are constrained as follows:
Query Interval > Max Response Time

Modify

Configuration / IGMP / VLAN Interface-Modify

IGMP Version	IGMPv2 ▼
VID	1
IGMP Mode	Normal Snooping ▼
IGMP Leave Mode	Normal Leave ▼
Robustness	2 ▼
Query Interval(sec)	125 (1~1800)
Max Response Time(0.1 sec)	100 (1~255)
Last Member Query interval(0.1 sec)	1 (1~255)
Last Member Query Count	2 ▼
Router Port	GE-1 ▼
Querier Source IP Address	0 0 . 0 . 0

The Query Interval and Max Response Time are constrained as follows:
Query Interval > Max Response Time

Operation	<p><u>Refresh:</u> Refresh to get current data.</p> <p><u>Create:</u></p> <ol style="list-style-type: none"> 1. Into Create web page. 2. Setting data 3. Click "Apply" to setting data or click "Cancel" to cancel setting data. <p><u>Delete:</u> Delete current selected row data.</p> <p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Into Modify web page. 2. Setting data <p>Click "Apply" to setting data or click "Cancel" to cancel setting data.</p>
Field	Description

NO	Entry Index, max 64.
VID	VLAN ID (1~4094)
Version	IGMP Version: IGMPv2 or IGMPv3.
Run Version	Current running IGMP version.
Mode	IGMP Access Mode: Normal Snooping (default) or Proxy.
Leave Mode	IGMP Leave Mode: Normal Leave (default) or Fast Leave.
Robustness	IGMP VLAN robustness variable. (1~3)
Robustness Run Value	<p>Display QRV value or configured value:</p> <p>To support QRV and QQIC in IGMPv3 mode. Industrial Ethernet Switch support 2 parameters to represent the running Robustness Variable and running Query Interval. These 2 parameters is support for each IGMP VLAN interface. When IGMPv3 proxy mode, these 2 value will apply the value which get from IGMPv3 Query packet. In other mode, the value is applied the configured value.</p>
Query Interval (sec)	<p>IGMP VLAN query interval.(unit: sec)</p> <p>Default: 125 seconds</p> <p>Limitation: Query Interval>Max Response Time</p>
Query Interval Run Value (sec)	<p>Display QQIC value or configured value:</p> <p>To support QRV and QQIC in IGMPv3 mode. Industrial Ethernet Switch support 2 parameters to represent the running Robustness Variable and running Query Interval. These 2 parameters is support for each IGMP VLAN interface. When IGMPv3 proxy mode, these 2 value will apply the value which get from IGMPv3 Query packet. In other mode, the value is applied the configured value</p>
Max Response Time	<p>IGMP VLAN max response time.</p> <p>Default: 10.0 seconds. (Display in second, configure it with 0.1 second)</p> <p>The Query Interval and Max Response Time are constrained as follows: Query Interval > Max Response Time</p>
Group Membership Time	IGMP Group Membership Time (Unit: sec) Read-only
Last Member Query Interval	IGMP VLAN last member query interval. (Display in second, configure it with 0.1 second) Default: 0.1 second
Last Member Query Count	IGMP VLAN last member query count, range 1~3. Default: 2

Router Port	<p>IGMP VLAN interface: Bridge port:GE-1 ~ Port MAX Number. Default value is 1</p>
V2 Present Time(sec)	<p>Read-only, it can be tuned by (last RunQueryInterval *10*robustness + maxRespTime)</p>
Querier Source IP Address	<p>Querier Source IP Address. Default: 0.0.0.0</p>

2.3.14.8 Static Group Membership

Configuration / Static Group Membership

IP Address . . .
 VID
 Membership ▼

Delete Type ▼

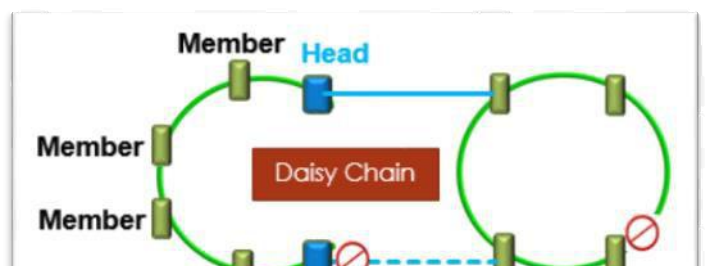
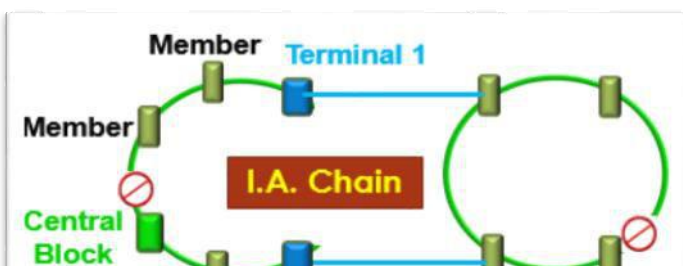
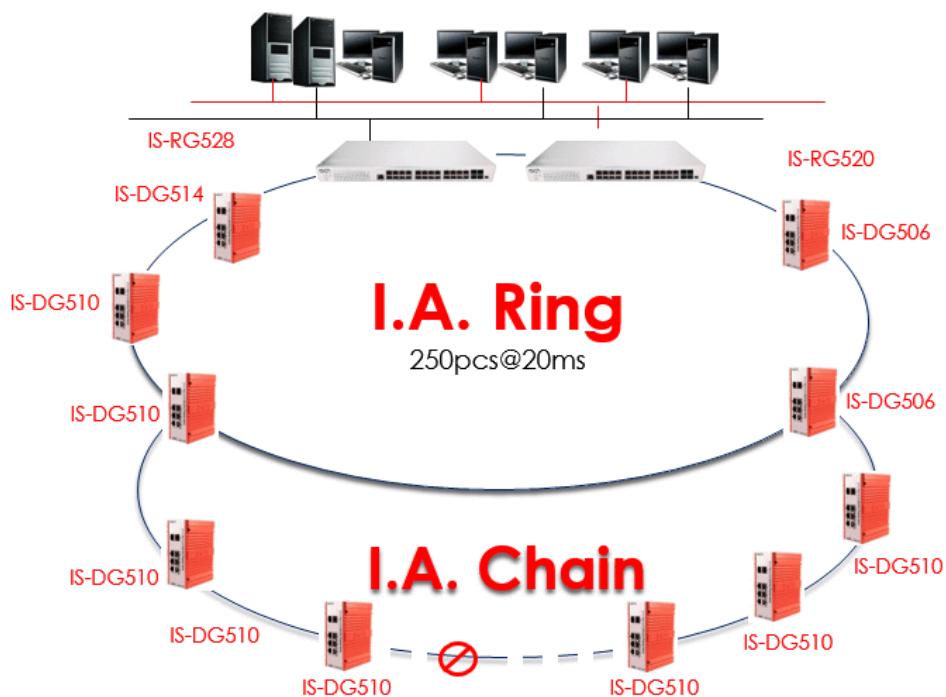
Previous Command Result: Normal

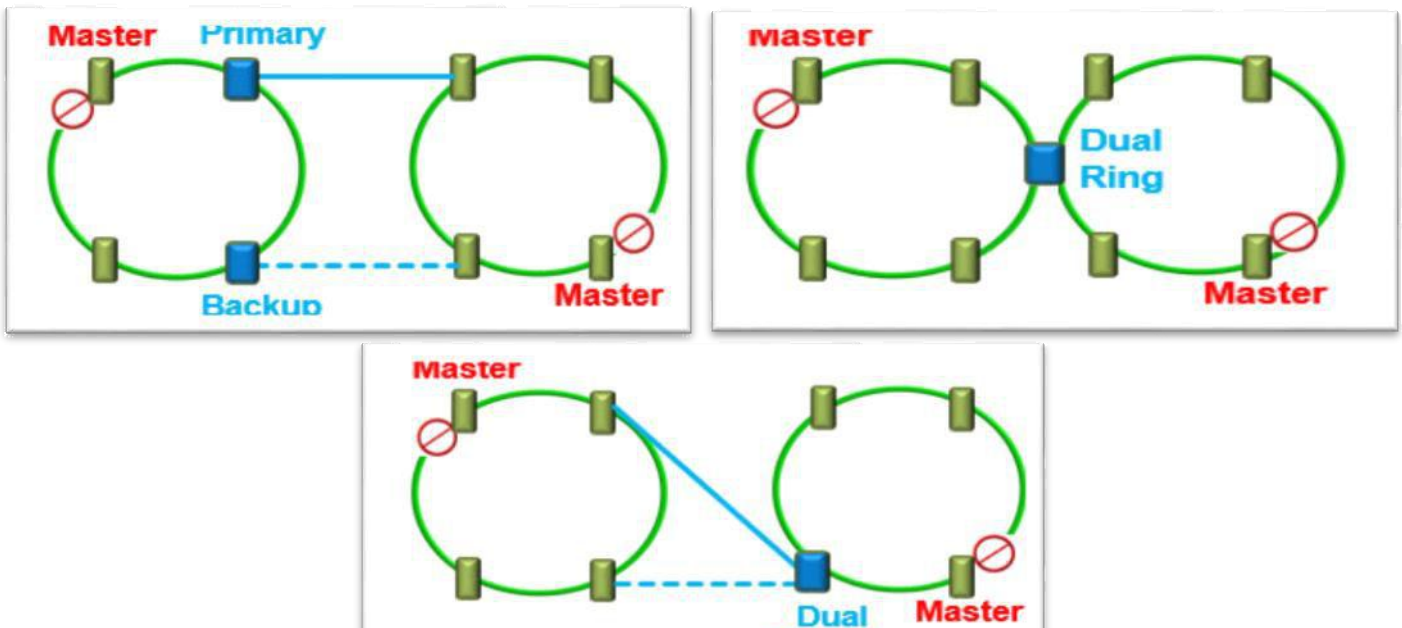
ID	IP Address	VID	Membership
----	------------	-----	------------

Operation	<p><u>Create New:</u></p> <ol style="list-style-type: none"> 1. Fill IP Address, VID and select Membership. 2. Click "Create New" button to create new data. <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select Delete Type "All/ Membership/ VID/ Selected" 2. If delete type is "Port", then select a port 3. If delete type is "VID", then fill a VID 4. If delete type is "Selected", then select one row 5. Click "Delete" button to delete data.
Field	Description
ID	Entry Index, value range is 1~128.
IP Address	Group Membership IP Address, range is 224.0.0.0~239.255.255.255
VID	VLAN ID, range is 1 ~ 4094.
Membership	Giga Port, GE-1 ~ MAX Number of Port.

2.3.15 IA.Ring/Chain

I.A Ring & Chain Configuration





I.A. Ring & Chain Configuration

Ring & Chain Configuration			
Index	Mode	Role	Ring Port(s)
1	Disable ▾	Ring(Slave) ▾	Forward Port : Port-1 ▾ Forward Port : Port-2 ▾
2	Disable ▾	Ring(Slave) ▾	Forward Port : Port-3 ▾ Forward Port : Port-4 ▾
3	Disable ▾	Chain(Member) ▾	Member Port : Port-1 ▾ Member Port : Port-2 ▾

Save Reset

Object	Description
Index	The group index. This parameter is used for easy identifying the ring when user configure it. Group 1 (Index 1) - It supports configuration of ring. Group 2 (Index 2) - It supports configuration of ring, coupling and dual-homing. Group 3 (Index 3) - It supports configuration of chain and balancing-chain.
Mode	Enable Ring on the specific group. When Group 1 or 2 is enabled, all configuration of Group 3 will be reset to default. Group 3 all

	<p>configuration options will be locked.</p> <p>To configure Group 3, both Group1 and 2 should be disabled first. When Group 3 is enabled, all configuration of Group1 and 2 will be reset to default. Group 1 and 2 all configuration options will be locked.</p>
<p>Role</p>	<p>Configure the Ring group on this switch as specific role.</p> <p>Group 1 - support option of ring-master and ring-slave. # Ring - it could be master or slave.</p> <p>Group 2 - support configuration of the ring, coupling and dual-homing. # Ring - it could be master or slave. # Coupling - it could be primary and backup. # Dual-Homing</p> <p>Group 3 - support configuration of the chain and balancing-chain. # Chain - it could be head, tail or member. # Balancing Chain - it could be central-block, terminal-1/2 or member.</p> <p>Note 1 - Group 1 must be enabled before enable Group 2 to coupling. Note 2 - When Group 1 or 2 is enabled, the configuration of Group 3 will be disabled. Note 3 - When Group 3 is enabled, the configuration of Group 1 and 2 will be disabled.</p>
<p>Ring Port(s)</p>	<p>Selecting ring port(s).</p> <p>Each ring port must be unique, CANNOT be configured in different groups; 2 ring ports between ring/chain CANNOT be the same.</p> <p># When role is ring/master, one ring port is forward port and another is block port. The block port is redundant port; it is blocking port in normal state.</p> <p># When role is ring/slave, both ring ports are forward port.</p> <p># When role is coupling/primary, only need one ring port named primary port.</p> <p># When role is coupling/backup, only need one ring port named backup port. This backup port is redundant port; it is blocking port in normal state.</p> <p># When role is dual-homing, one ring port is primary port and another is backup port. This backup port is redundant port; it is blocking port in normal state.</p>

When role is chain/head, one ring port is **member port** and another is **head port**. Both ring ports are forwarding port in normal state.

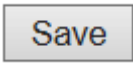
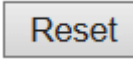
When role is chain/tail, one ring port is **member port** and another is **tail port**. The tail port is redundant port; it is blocking port in normal state.

When role is chain/member, both ring ports are **member port**. Both ring ports are forwarding port in normal state.

When role is balancing-chain/central-block, one ring port is **member port** and another is **block port**. The block port is redundant port; it is blocking port in normal state.

When role is balancing-chain/terminal-1/2, one ring port is **member port** and another is **terminal port**. Both ring ports are forwarding port in normal state.

When role is balancing-chain/member, both ring ports are **member port**. Both ring ports are forwarding port in normal state.

Buttons	
	Click to save changes.
	Click to undo any changes made locally and revert to previously saved values.

I.A.Ring Configuration

The screenshot displays the 'Ring Configuration' interface with two overlapping windows. The top window shows the configuration for Index 1 (Ring(Master)) and Index 2 (Dual Homing). The bottom window shows the configuration for Index 1 (Ring(Slave)), Index 2 (Dual Homing), and Index 3 (Chain(Member)). Buttons for Save and Reset are visible at the bottom of both windows.

Index	Mode	Role	Ring Port(s)
1	Enable	Ring(Master)	Forward Port : Port-3 Block Port : Port-4
2	Disable	Dual Homing	Primary Port : Port-7 Backup Port : Port-2

Index	Mode	Role	Ring Port(s)
1	Enable	Ring(Slave)	Forward Port : Port-3 Forward Port : Port-4
2	Disable	Dual Homing	Primary Port : Port-1 Backup Port : Port-2
3	Disable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Ring Coupling Configuration

The image displays two screenshots of the 'Ring Configuration' interface. Both screenshots feature a table with columns for Index, Mode, Role, and Ring Port(s). Below the table are 'Save' and 'Reset' buttons.

Top Screenshot:

Index	Mode	Role	Ring Port(s)
1	Enable	Ring(Slave)	Forward Port : Port-3 Forward Port : Port-4
2	Enable	Coupling(Primary)	Primary Port : Port-6
3	Disable	Chain(Member)	

Bottom Screenshot:

Index	Mode	Role	Ring Port(s)
1	Enable	Ring(Slave)	Forward Port : Port-3 Forward Port : Port-4
2	Enable	Coupling(Backup)	Backup Port : Port-5
3	Disable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Dual Homing Configuration

The image shows the 'Ring Configuration' interface for a Dual Homing configuration. The table below shows the settings for three indices. The 'Save' button at the bottom left is circled in red.

Index	Mode	Role	Ring Port(s)
1	Enable	Ring(Master)	Forward Port : Port-3 Block Port : Port-4
2	Enable	Dual Homing	Primary Port : Port-5 Backup Port : Port-6
3	Disable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Save Reset

I.A.Chain (Daisy Chain)

Ring Configuration

Index	Mode	Role	Ring Port(s)
1	Disable	Ring(Slave)	Forward Port : Port-1 Forward Port : Port-2
2	Disable	Ring(Slave)	Backup Port : Port-1
3	Enable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Save Reset

- Chain(Member)
- Chain(Head)
- Chain(Tail)
- I.A Chain(Central Block)
- I.A Chain(Terminal-1)
- I.A Chain(Terminal-2)
- I.A Chain(Member)

Ring Configuration

Index	Mode	Role	Ring Port(s)
1	Disable	Ring(Slave)	Forward Port : Port-1 Forward Port : Port-2
2	Disable	Ring(Slave)	Backup Port : Port-1
3	Enable	Chain(Tail)	Member Port : Port-1 Tail Port : Port-2

Ring Configuration

Index	Mode	Role	Ring Port(s)
1	Disable	Ring(Slave)	Forward Port : Port-1 Forward Port : Port-2
2	Disable	Ring(Slave)	Backup Port : Port-1
3	Enable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Save Reset

- Chain(Member)
- Chain(Head)
- Chain(Tail)
- I.A Chain(Central Block)
- I.A Chain(Terminal-1)
- I.A Chain(Terminal-2)
- I.A Chain(Member)

Ring Configuration

Index	Mode	Role	Ring Port(s)
1	Disable	Ring(Slave)	Forward Port : Port-1 Forward Port : Port-2
2	Disable	Ring(Slave)	Backup Port : Port-1
3	Enable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Save Reset

- Chain(Head)
- Chain(Tail)
- I.A Chain(Central Block)
- I.A Chain(Terminal-1)
- I.A Chain(Terminal-2)
- I.A Chain(Member)

Ring Configuration

Index	Mode	Role	Ring Port(s)
1	Disable	Ring(Slave)	
2	Disable	Ring(Slave)	Backup Port : Port-1
3	Enable	Chain(Head)	Member Port : Port-1 Head Port : Port-2

Save Reset

Ring Configuration			
Index	Mode	Role	Ring Port(s)
1	Disable	Ring(Slave)	Forward Port : Port-1 Forward Port : Port-2
2	Disable	Ring(Slave)	Backup Port : Port-1
3	Enable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Save Reset

- Chain(Member)
- Chain(Member)
- Chain(Head)
- Chain(Tail)
- I.A Chain(Central Block)
- I.A Chain(Terminal-1)
- I.A Chain(Terminal-2)
- I.A Chain(Member)

2.4.1 Front Panel

This page still can't display the real status of system's panel.

Monitor / Front Panel



2.4.2 Alarm/Event

Alarm Current

Monitor / Alarm Current

Refresh

Previous Command Result: Normal

[Alarm Current](#) [Alarm History](#) [Event Log](#)

SeqNo	ID	Description	Level	State	Time
-------	----	-------------	-------	-------	------

Alarm History

Monitor / Alarm History

Previous Command Result: Normal

[Alarm Current](#)
[Alarm History](#)
[Event Log](#)

SeqNo	ID	Description	Level	State	Time
-------	----	-------------	-------	-------	------

Event Log

Monitor / Event Log

Previous Command Result: Normal

[Alarm Current](#)
[Alarm History](#)
[Event Log](#)

SeqNo	ID	Position/Name	Description	Time
34	29	System	User Timeout Logout	01/05/2000 00:29:27
33	29	System	User Timeout Logout	01/04/2000 22:56:07
32	29	System	User Timeout Logout	01/04/2000 22:55:02
31	501	GE-1	GE Port Link Up	01/04/2000 22:45:21
30	26	System	User Login Success	01/04/2000 22:44:42
29	502	GE-28	GE Port Link Down	01/04/2000 22:44:04
28	502	GE-27	GE Port Link Down	01/04/2000 22:44:04
27	502	GE-26	GE Port Link Down	01/04/2000 22:44:04
26	502	GE-25	GE Port Link Down	01/04/2000 22:44:04
25	502	GE-16	GE Port Link Down	01/04/2000 22:44:04
24	502	GE-15	GE Port Link Down	01/04/2000 22:44:04
23	502	GE-14	GE Port Link Down	01/04/2000 22:44:04
22	502	GE-12	GE Port Link Down	01/04/2000 22:44:04
21	502	GE-11	GE Port Link Down	01/04/2000 22:44:04
20	502	GE-10	GE Port Link Down	01/04/2000 22:44:04
19	502	GE-9	GE Port Link Down	01/04/2000 22:44:04
18	502	GE-8	GE Port Link Down	01/04/2000 22:44:04
17	502	GE-7	GE Port Link Down	01/04/2000 22:44:04

Operation	<p><u>Refresh:</u></p> <ol style="list-style-type: none"> 1. Click "Refresh" button to refresh data.
------------------	---

	<u>Clear:</u> 1. Click "Clear" to clear data.
Field	Description
SeqNo	Alarm/Event Sequential Number.
ID	Alarm/Event Type ID.
Description	Alarm/Event Type Description.
Position/Name	Event Position/Name.
Level	No matter alarm is major/minor, Alarm LED color always be red.
State	Alarm State. Value is Set/Cleared.
Time	Time.

2.4.3 Fdb

Monitor / Fdb

Query Type

Index. to

Previous Command Result: Normal

Index	Port	VID	MAC Address	Status
1	GE-1	1	54:A0:50:8A:C4:07	Dynamic

Operation	<u>Query:</u> <ol style="list-style-type: none"> 1. Select a Query Type 2. Fill query condition 3. Modify query record range 4. Click "Query" button to query <u>Delete:</u> <ol style="list-style-type: none"> 1. Select delete type (All/ By VID/By Port)
------------------	--

	<ol style="list-style-type: none"> 2. Fill delete condition 3. Click "Delete" to delete data.
Field	Description
Port	GE-1 ~ MAX Number of Port or Trunk Group.
VID	VLAN ID: 1~4094
MAC Address	Format xx:xx:xx:xx:xx:xx
Status	Data type: Dynamic/ Static

2.4.4 Giga Port Statistics

Monitor / Giga Port Statistics

Port: GE-1

Previous Command Result: Normal

Input Counter	Value	Output Counter	Value
Input Bytes	1356669	Output Bytes	2103526
Unicast Pkts	3052	Unicast Pkts	3749
Multicast Pkts	4640	Multicast Pkts	0
Broadcast Pkts	2994	Broadcast Pkts	0
Discard Pkts	0	Discard Pkts	0
Error Pkts	0	Error Pkts	0

Operation	<p><u>Refresh:</u></p> <ol style="list-style-type: none"> 1. Fill query condition (Port) 2. Refresh current data. <p><u>Clear:</u></p> <ol style="list-style-type: none"> 1. Select clear port. 2. Click "Clear" to clear setting port data.
Field	Description
Port	Range: GE-1 ~Maximum Number of Port.
Input Bytes	The total number of octets received on the interface, including framing characters.

Input Unicast Pkts	The number of packets, delivered by this sub-layer to a higher (sub-) layer, which were not addressed to a multicast or broadcast address at this sub-layer.
Input Multicast Pkts	The number of packets, delivered by this sub-layer to a higher (sub-) layer, which were addressed to a multicast address at this sub-layer. For a MAC layer protocol, this includes both Group and Functional address.
Input Broadcast Pkts	The number of packets, delivered by this sub-layer to a higher (sub-) layer, which were addressed to a broadcast address at this sub-layer.
Input Discard Pkts	The number of inbound packets which were chosen to be discarded even though no errors had been detected to prevent their being deliverable to a higher-layer protocol. One possible reason for discarding such a packet could be to free up buffer space.
Input Error Pkts	For packet-oriented interfaces, the number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol. For character-oriented or fixed-length interfaces, the number of inbound transmission units that contained errors preventing them from being deliverable to a higher-layer protocol.
Output Bytes	The total number of octets transmitted out of the interface, including framing characters.
Output Unicast Pkts	The total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at this sub-layer, including those that were discarded or not sent.
Output Multicast Pkts	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent. For a MAC layer protocol, this includes both Group and Functional address.
Output Broadcast Pkts	The total number of packets that higher-level protocol requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent.
Output Discard Pkts	The number of outbound packets which were chosen to be discarded even though no errors had been detected to prevent their being transmitted. One possible reason for discarding such a packet could be to free up buffer space.
Output Error Pkts	For packet-oriented interfaces, the number of outbound packets that could not be transmitted because of errors. For character-oriented or fixed-length interfaces, the number of outbound transmission units that could not be transmitted because of errors.

2.4.5 RMON

Monitor / RMON(Ethernet Stats)

Physical Port: GE-1 ▼

Previous Command Result: Normal

Counter	Value	Counter	Value
Pkts 64 Octets	3441	Pks 65 to 127 Octetss	5911
Pkts 128 to 255 Octets	3214	Pkts 256 to 511 Octets	203
Pkts 512 to 1023 Octets	505	Pkts 1024 to 1518 Octets	1211
Octets	1361161	Packets	10719
Broadcast Pkts	3001	Multicast Pkts	4650
CRC Aligh Errors	0	Undersize Pkts	0
Oversize Pkts	0	Fragments	0
Jabbers	0	Collisions	0
Drop Events	0		

Operation	<p><u>Refresh:</u></p> <p>Click "Refresh" button to refresh current data.</p> <p><u>Clear:</u></p> <ol style="list-style-type: none"> 1. Select clear port. 2. Click "Clear" to clear setting physical port data.
Field	Description
Pkts 64 Octets	Total number of packets (including bad packets) received that were 64 octets in length.
Pkts 65 to 127 Octets	Total number of packets (including bad packets) received that were between 65 and 127 octets in length.
Pkts 128 to 255 Octets	Total number of packets (including bad packets) received that were between 128 and 255 octets in length.
Pkts 256 to 511 Octets	Total number of packets (including bad packets) received that were between 256 and 511 octets in length.

Pkts 512 to 1023 Octets	Total number of packets (including bad packets) received that were between 512 and 1023 octets in length.
Pkts 1024 to 1518 Octets	Total number of packets (including bad packets) received that were between 1024 and 1518 octets in length.
Octets	The total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets).
Packets	The total number of packets (including bad packets, broadcast packets, and multicast packets) received
Broadcast Pkts	The total number of good packets received that were directed to the broadcast address. Note that this does not include multicast packets
Multicast Pkts	The total number of good packets received that were directed to a multicast address. Note that this number does not include packets directed to the broadcast address.
CRC Align Errors	The total number of packets received that had a length (excluding framing bits, but including FCS octets) of between 64 and 1518 octets, inclusive, but had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Undersize Pkts	The total number of packets received that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.
Oversize Pkts	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.
Fragments	The total number of packets received that were less than 64 octets in length (excluding framing bits but including FCS octets) and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Jabbers	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets), and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Collisions	The best estimate of the total number of collisions on this Ethernet segment.
Drop Events	The total number of events in which packets were dropped by the probe due to lack of resources. Note that this number is not necessarily the number of packets dropped; it is just the number of times this condition has been detected.

2.4.6 Users

Monitor / Users			
<input type="button" value="Refresh"/>			
Index	Interface Type	Account Name	Information
1	CLI	admin	from 192.168.0.20
2	WEB	admin	from 192.168.0.20
3	CONSOLE	admin	

Operation	<u>Refresh:</u> Click "Refresh" button to refresh current data.
Field	Description
Index	Show the index of login user list.
Interface Type	Show the mode of access. Possible values Console, CLI, Web.
Account Name	Show the account name of the user.
Information	Show more information about the user, including IP address of the management host.

2.4.7 I.A. Ring & Chain Status

Monitor / I.A. Ring & Chain Status

Previous Command Result: Normal

I.A. Ring & Chain Status

Group index	Mode	State	Role	Ring Port(s)
1	Disabled	--	Ring(Slave)	--
2	Disabled	--	Ring(Slave)	--
3	Disabled	--	Chain(Member)	--

Operation	<p><u>Refresh:</u></p> <p>Click "Refresh" button to refresh current data.</p>
Field	Description
Group Index	The group Index. This parameter is used for easy to identify the ring when use to configure it.
Mode	It indicates whether the ring is enabled.
Role	It indicates that the ring is configured to what role.
State	<p>When ring is completeness, it will show "Normal".</p> <p>When ring is not completeness, at least one link is down, it will show "Fail".</p>
Ring Port(s)	Describes current status of ring port(s).

2.4.8 802.1x

2.4.8.1 PAE Port Status

Monitor/ 802.1x / PAE Port Status

Previous Command Result: Normal

Protocol Version: 2, Capability: Authenticator

Port	PAE State	Backend State	Port Status	Initiating	Re-Initialize	Re-Authenticate
1	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
2	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
3	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
4	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
5	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
6	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
7	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
8	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>
9	Disconnected	Idle	Authorized	Disabled	<input type="button" value="Enable"/>	<input type="button" value="Enable"/>

Operation	<p><u>Refresh:</u></p> <p>Click "Refresh" button to refresh current data.</p>
Field	Description
Port	<p>The index of PAE Port:</p> <p style="color: red;">Value Range 1 ~ MAX Number of Port.</p>
PAE State	<p>The authenticator status of PAE port:</p> <p>Possible state:</p> <p>Initialize</p> <p>Disconnected</p>

	<p>Authenticating</p> <p>Authenticated</p> <p>Aborting</p> <p>Held</p> <p>Force Auth</p> <p>Force Unauth</p>
Backend State	<p>The number of RADIUS Access-Accept received from RADIUS server.</p> <p>Range: 0~65535.</p>
Rejects	<p>The backend authenticator status of PAE port.</p> <p>Possible state:</p> <p>Initialize</p> <p>Idle</p> <p>Request</p> <p>Response</p> <p>Success</p> <p>Fail</p> <p>Timeout</p> <p>Ignore</p>
Port Status	<p>The authentication status of PAE port.</p> <p>Possible state:</p> <p>Authorized/Unauthorized</p>
Initiating	<p>Enable for force PAE port re-initialize.</p>
Re-Initialize	<p>Set Enable to force PAE port re-initialize.</p>
Re-Authenticate	<p>Set Enable to force PAE port re-authenticate.</p>

2.4.8.2 RADIUS Statistics

Monitor / 802.1x / RADIUS Statistics

Previous Command Result: Normal

Index	Tx Access Requests	Rx Access Accepts	Rx Access Rejects	Rx Access Challenges	Rx Bad Authenticators	Timeouts Count	Packets Dropped
1	0	0	0	0	0	0	0

Operation	<p><u>Refresh:</u> Click "Refresh" button to refresh current data.</p> <p><u>Clear:</u> Click "Clear" button to reset the counters.</p>
Field	Description
Index	The index of RADIUS Server: Current only support 1 RADIUS server
Requests	The number of RADIUS Access-Request sent to RADIUS server Range 0~65535.
Accepts	The number of RADIUS Access-Accept received from RADIUS server: Range 0~65535.
Rejects	The number of RADIUS Access-Reject received from RADIUS server: Range 0~65535.
Challenges	The number of RADIUS Access-Challenge received from RADIUS server: Range 0~65535.
Bad Authenticators	The number of invalid RADIUS response packet received from RADIUS server: Range 0~65535.
Timeout	The number of server Timeout happens on Backend Authentication state machine: Range 0~65535
Packets Dropped	The number of packet from RADIUS server to be silent drop by Authenticator Range 0~65535

2.4.8.3 EAPOL Statistics

Monitor / 802.1x / EAPOL Statistics											
Refresh		Clear		Clear Type		All					
Previous Command Result: Normal											
Port	Frame version	Frame Tx			Frame Rx						
		Total	ReqID	Req	Total	Start	Logoff	RespID	Resp	Invalid	Length Error
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0

Operation	<p><u>Clear:</u></p> <ol style="list-style-type: none"> 1. Select "Clear Type". 2. If clear type is "Port", then select port number to be cleared. 3. Click "Clear" button.
Field	Description
Port	<p>The index of PAE port:</p> <p>Value range 1 ~ MAX Number of port.</p>
Protocol Version	<p>The protocol version number carried in the most recently received EAPOL frame.</p> <p>Range 0~65535.</p>
Frame Tx	<p>The number of EAPOL frames of any type that has been transmitted.</p> <p>Range 0~65535.</p>
Req Id Frame Tx	<p>The number of EAP Req/Id frames that have been transmitted.</p> <p>Range 0~65535.</p>

Req Frame Tx	The number of EAP Request frames (other than Req/Id frames) that have been transmitted. Range 0~65535.
Frame Rx	The number of valid EAPOL frames of any type that has been received. Range 0~65535.
Start Frame Rx	The number of EAPOL Start frames that have been received. Range 0~65535.
Logoff Frame Rx	The number of EAPOL Logoff frames that have been received. Range 0~65535.
Resp Id Frame Rx	The number of EAP Resp/Id frames that have been received. Range 0~65535.
Resp Frame Rx	The number of valid EAP Response frames(other than Resp/Id frames) that have been received. Range 0~65535.
Invalid Frame Rx	The number of EAPOL frames that have been received by this Authenticator in which the frame type is not recognized. Range 0~65535.
Length Error Frame Rx	The number of EAPOL frames that have been received by this Authenticator in which the Packet Body Length field is invalid. Range 0~65535.

2.4.9 IGMP

2.4.9.1 Group Membership

Monitor / IGMP / Group Membership

Query Type

Index to (Query Range: 1~512)

Previous Command Result: Normal

Index	IP Address	VID	Filter Mode	Membership	Time (sec)	Status
-------	------------	-----	-------------	------------	------------	--------

Operation	<p><u>Query:</u></p> <ol style="list-style-type: none"> 1. Select Query Type 2. Fill query condition 3. Modify query record range (Index range) 4. Click "Query" button to query data. <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select Delete Type 2. Fill VLAN ID when delete type is "By VID" 3. Select one membership when delete type is "By Membership" <p>Click "Delete" button to delete data.</p>
Field	Description
Index	Index, value range 1~512
IP Address	Group IP Address.
VID	VLAN ID, range 1~4094
Filter Mode	Multicast FDB entry Filter Mode.
Membership	Bridge Port ID, range GE-1 ~ MAX Number of Port.
Time (sec)	Remain Time, unit is second
Status	Group Membership status, Dynamic or Static.

2.4.9.1 Group Membership Source Fdb

Monitor / IGMP / Group Membership Source Fdb							
<input type="button" value="Query"/> Index <input type="text" value="1"/> to <input type="text" value="64"/> (Query Range: 1~64)							
Previous Command Result: Normal							
Index	Group IP	VID	Filter Mode	Source IP	GrpTime(sec)	SrcTime(sec)	Status

Operation	<p><u>Query:</u></p> <ol style="list-style-type: none"> 1. Select Query Type 2. Fill query condition (Index 1~64) 3. Click "Query" button to query data.
Field	Description
Index	Multicast Source FDB table. Max entry size: 64
Group IP	Multicast Source FDB group IP address.
VID	Multicast Source FDB VLAN ID, range 1~4094
Filter Mode	Multicast Source FDB Filter Mode: Include/Exclude In INCLUDE mode, the GroupRemainTime has no timeout. In EXCLUDE mode, the block list's source has no timeout.
Source IP	Source IP Address
GrpTime(sec)	Group Remain Time: if it show "--", represents time is 0.
SrcTime(sec)	Source Remain Time: if it show "--", represents time is 0.
Status	Multicast Source FDB entry type: Allow/Block

2.5 System

2.5.1 Restart

Maintenance / Restart	
<input type="button" value="Restart"/>	<input type="button" value="Save Running Config & Restart"/>

Operation	<p><u>Restart:</u> Click "Restart" button will restart the system</p> <p><u>Save Running Config & Restart:</u> Click " Save Running Config & Restart" button will redirect page to "Save & Restore"</p>
------------------	---

2.5.2 Save & Restore

Maintenance / Save & Restore	
Database Control Action:	[Select] <input type="button" value="Submit"/>
FTP Server IP	
FTP Account	
FTP Password	
Filename	
Inband DB	
General DB	
Boot inband DB	1 01/12/2000 03:19:50 ▾
Boot general DB	1 01/01/2000 03:37:33 ▾
Set active inband DB	1 01/12/2000 03:19:50 ▾
Set active general DB	1 01/01/2000 03:37:33 ▾
Current Database Status	MEMORY READ SUCCESS

Operation	<p><u>Submit:</u></p> <ol style="list-style-type: none"> 1. Select Control Action. 2. Fill necessary data for action. 3. Click "Submit" button to start the instruction.
Field	Description
Database Control action	<p>Select Database control.</p> <p>(A)Save Inband configuration and runtime configuration as the active restoration database for next power-on restoration.</p> <p>(B)Restore Inband configuration and control plane configuration by setting another restoration database active.</p> <p>(C)Restore Inband configuration and control plane configuration by setting another restoration database active and system restart.</p> <p>(D)Clear Inband configuration and control plane configuration in the active restoration database.(Warn: runtime configuration is also cleared and Inband configuration is lost)</p> <p>(E)Clear Inband configuration and control plane configuration in the active restoration database and system restart.(Warn: runtime configuration is also cleared and</p>

	<p>Inband configuration. is lost)</p> <p>(F)Clear control plane configuration in the active restoration database. (runtime configuration. is also changed.)</p> <p>(G)Clear control plane configuration in the active restoration database and restart. (runtime configuration is also changed.)</p> <p>(H)Export runtime configuration in CLI command format to ftp server.</p> <p>(I)Export runtime configuration in binary format to ftp server.</p> <p>(J)Import database in CLI command format from ftp server and set it to the active restoration database.</p> <p>(K)Import database in CLI command format from ftp server and set it to the active restoration database and system restart.</p> <p>(L)Import database in binary format from ftp server and set it to the active restoration database.</p> <p>(M)Import database in binary format from ftp server and set it to the active restoration database and system restart.</p> <p>(P)Save running configure to flash replacing the specified backup.</p>
FTP Server IP	Input FTP Server IP Address
FTP Account	Input FTP Name
FTP Password	Input FTP Password
Filename	Input File Name
Inband DB	Inband Backup Name (1 ~ 31 characters)
General DB	General Backup Name (1 ~ 31 characters)
Boot inband DB	Show runningcfg backup
Boot general DB	Show runningcfg backup
Set active inband DB	Show runningcfg backup
Set active general DB	Show runningcfg backup

2.5.3 Firmware

Maintenance / Firmware			
Previous Command Result: Normal			
FTP Information			
Remote Server IP	<input type="text" value="."/> . <input type="text" value="."/> . <input type="text" value="."/> . <input type="text" value="."/> : <input type="text" value="21"/>		
Server User Name	<input type="text"/>		
Server Password	<input type="text"/>		
File Name	<input type="text"/>		
Schedule Time <input type="checkbox"/> Enabled	<input type="text"/> / <input type="text"/> / <input type="text"/> : <input type="text"/> : <input type="text"/> (Format: MM/DD/YYYY HH:MM:SS)		
FTP Write Flash	<input type="button" value="FTP Get and Write Flash"/> <input type="checkbox"/> Reboot After Remote Download		
Partition Information			
Partition Location	Current Boot	Next Boot	Description
Partition:0	YES	YES	00.04.02I
Partition:1	--	--	00.04.02I
Change Partition	<input type="text" value="Partition.0"/> <input type="button" value="Submit"/>		
<p>Note:Upgrading firmware may disconnect this page. Please refresh the page if it is disconnected.</p> <p>Warning:Upgrading firmware may take a few minutes. Please don't turn off or reset the BOX</p>			

Operation	<p>FTP Get and Write Flash:</p> <ol style="list-style-type: none"> 1. Select Schedule time checkbox to setting schedule 2. Fill schedule time 3. Click "FTP Get and Write Flash" button will load firmware from remote server IP, If the "Reboot After Remote Download" was selected it will restart system when the firmware was changed. <p>Submit:</p> <p>Click "Submit" button will change the partition. The system will use this partition number when the system is restart.</p>
Field	Description
Remote Server IP	Type in the IP address of the FTP server where the firmware is stored.

Server User Name	Type in a user name accepted by the FTP server.
Server Password	Type in a password accepted by the FTP server.
File Name	Type in the name of the firmware file (string length 1 ~ 64).
Schedule Time	Select Enable checkbox and type in the schedule time to update of the firmware file. The time format: MM/DD/YYYY HH:MM:SS
FTP Get and Write Flash	After you have entered the FTP server, user name, password and firmware file name, click on this button to start the firmware update process.
Reboot After Remote Download	Select the checkbox if you want the system reboot automatically once the firmware update is finished.

2.5.4 Alarm Profile

Maintenance / Alarm Profile

Previous Command Result: Normal

<input type="checkbox"/>	ID	Description	Level	Mask
<input type="checkbox"/>	101	GE-1 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	102	GE-2 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	103	GE-3 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	104	GE-4 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	105	GE-5 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	106	GE-6 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	107	GE-7 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	108	GE-8 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	109	GE-9 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	110	GE-10 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	111	GE-11 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	112	GE-12 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	113	GE-13 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	114	GE-14 Port Link Down	Minor ▾	Mask ▾
<input type="checkbox"/>	115	GE-15 Port Link Down	Minor ▾	Mask ▾

Operation	<u>Modify:</u> <ol style="list-style-type: none"> Select Row data checkbox. Modify Level and Mask. <p>Note: When any alarm exists, the Alarm LED will be lit, and Alarm Output Relay will also be enabled.</p> <ol style="list-style-type: none"> Click "Modify" button to modify data.
Field	Description
ID	Alarm Type ID.
Description	Alarm Type Description.
Level	No matter alarm is major/minor, Alarm LED color always be red.
Mask	If alarm is masked, then alarm item will not be captured in alarm history/current; SNMP trap either. If specific alarm item is masked, then it will not trigger the Alarm LED on or off.

2.5.5 CLI Options

Maintenance /CLI Options

Previous Command Result: Normal

Idle Timeout	600	seconds
Max session count	4	

Operation	<u>Modify:</u> <ol style="list-style-type: none"> Modify the configuration. Click "Modify" button to apply change.
Field	Description
Idle Timeout	Specify the timeout seconds for the operational interface. The session will be closed once the idle time exceeds this timeout value. Value range is 60 ~ 65535. 0 means disable timeout.
Max session count	Specify the maximum allowed sessions for the CLI (command line interface): 1 ~ 10.

2.5.6 HTTP (HTTPS)

Maintenance / HTTP(HTTPS)

Previous Command Result: Normal

HTTP Service: ▼

HTTP Port	80	For HTTP only. Default Port: 80
HTTPS Port	443	For HTTPS only. Default Port: 443

Operation	Modify: <ol style="list-style-type: none"> 1. Select HTTP or HTTPS. 2. Change the port number if necessary. 3. Click "Modify" button to apply the change.
Field	Description
HTTPS Service	HTTPS / HTTP. Default is HTTP (HTTPS disabled).
HTTPS Port	HTTPS service port. Range: 1~65535, Default Port: 443.
HTTP Port	HTTP service port. Range: 1~65535, Default Port: 80.

2.5.7 SLL

Maintenance / SSL

Upload New
Use Default Certificate

Previous Command Result: Normal

Encrypted Decrypted

SSL Certificate

```

-----BEGIN PRIVATE KEY-----
MIICdgIBADANBgkqhkiG9w0BAQEFAASCAmAwggJcAgEAAoGBALuZlVnQQpeyGfuI
MqBTgKX0wOvVUleMMu74nA9sYsC+80rHffhzALuvLYn5AwUNK1NcVRekApHEOJ/g
nPxRULYtG3aca8wbPxfm3dvrnYFxs2nWbN1BdCGdMxDp4zhf2RlrQ3kihYQ8Tvhx
ZLh7zwWwj+jScI+aVAwNqQdZX7J9AgMBAECgYEAgIMGX1P4jjEP0yy1KgEjMnzq
Q+9U0sTAJIS0BgMDMoCEV7CyE2L79DbemWLz1FKAtR1NMjw1SCddvJLddC+ZtFvx
XMm8dJ/s8cHMw6iDsVoPjHfxFZyw5dnVP+b9ndX41xRDzK9HzCRAyWD6oDiA8cFF
ep/n8yc+a7UsYw58CUECQQDleRv6urNLPQazsM7L1IRSoTF5dwJldhEKthWnYBSK
FCENRvhicdEjmeUgDQ17qrnWLCnTuAXXBfuuG6IypXktAkEA0UjOdyMmW8Pela/C
jrVi2ZcwsOXWsRII4FAjWF/USfRmP7tet2Qsv1D8wu+FuoIsdvjSDEhXUGnTJ+PL
j+hQkQJAVGfJvN3zmRcnYe0FA8B1s5cLBayauwtElXYIXPpgU7G3vpR+RGetD7VJ
rBjBT31CryT3gZwT3kp7A7KCGsJOQJAUkyfIh/DlpYfhFYXSomzTCtS0q4Wn3VT
RJy/sz5liAiVLbYdodYUxb8DYGWSiD3LxCTQW3m7Zr0Ub4kJHDUycQJAXo/qljSm
K+GI1aEiggJ3UtpMAZu/GzUtFkyDEOEymfERhE1+306xPTs8+aXmkwpFy3RAzx/e
lV/RE4+tGbpnuA==
-----END PRIVATE KEY-----
-----BEGIN CERTIFICATE-----
MIICEzCCAXygAwIBAgIJANvce6aJoJG0MA0GCSqGSIb3DQEBBQUAMEAx CzAJBgNV
BAYTA1BMMRMwEQYDVQQIEwpTb211LVN0YXR1MRwwGgYDVQQKEExNNAw5pIFdlYnNl
cnZpY2UgTHRkMBA4XDTEyMTIyNjA2MzgxOFoXDTEzMTIyNjA2MzgxOFowQDELMAkG
A1UEBhMCUEwxZARBgNVBAgTC1NvbWUuU3RhdGUxHDAaBgNVBAoTE01pbmkgV2Vi
c2VydmljZSBMdGQwgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBALuZlVnQQpey
GfuIMqBTgKX0wOvVUleMMu74nA9sYsC+80rHffhzALuvLYn5AwUNK1NcVRekApHE
    
```

Operation	<p><u>Use Default Certificate:</u></p> <ol style="list-style-type: none"> 1. Click "Use Default Certificate" button. 2. System will delete uploaded certificate, if it's exist. 3. After delete success, it will show default SSL certificate. <p><u>Upload New:</u></p> <ol style="list-style-type: none"> 1. Click "Upload New" button. 2. Copy and Paste both Private Key (privatekey) and Self-Signed SSL Certificate (cert) in the input area. 3. The certificate must be in PEM format as the following, otherwise upload would be failed: <pre style="font-family: monospace; font-size: 0.9em; margin-top: 10px;"> -----BEGIN RSA PRIVATE KEY----- </pre>
------------------	--

```

-----END RSA PRIVATE KEY-----
-----BEGIN CERTIFICATE-----
....
-----END CERTIFICATE-----

```

2.5.8 SNTP

Maintenance / SNTP

Previous Command Result: Normal

Select Time Zone:

Time Zone	GMT
System Date (M/D/YYYY)	01 / 05 / 2000
System Time (H:M:S)	02 : 43 : 35
Polling Interval	0 Sec
SNTP Server Address	0 . 0 . 0 . 0

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Modify the configuration. 2. Click "Modify" button to modify data. <p><u>Sync:</u></p> <p>Click "Sync" button to manual synchronize system time from SNTP server.</p>
Field	Description
Select Time zone	Sets the local time zone with Time Zone list. Sixty-six of the world's time zones are presented (including those using standard time and summer/daylight savings time).
System Date	Sets system date (mm/dd/yyyy).
System Time	Sets system time (hh:mm:ss).
Polling Interval	Sets polling interval (seconds) that SNTP client will sync with designated SNTP server.
SNTP Server address	Sets SNTP server IP address for your system.

2.5.9 Syslog

Maintenance / Syslog

Previous Command Result: Normal

Status: Disabled ▾

Current Server	192.168.1.1
Syslog Server Address	192 . 168 . 1 . 1

Operation	<p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Select Enabled/Disabled option and click Modify button to enable Syslog function. 2. Modify the configuration. 3. Click "Modify" button to modify data.
Field	Description
Status	<p>Value is Enabled/Disabled, default is Disables.</p> <p>It will control the system log work or not.</p>
Current Server	Current Syslog server IP address.
Syslog Server Address	New Syslog server IP address. The server must be a remote host.

2.5.10 User Administration

Maintenance / User Administration

Previous Command Result: Normal

	No.	User Name	Access Level	Comment
<input checked="" type="radio"/>	1	admin	Super User	

Maintenance / User Account - Create

Access Level: Super User ▾

User Name	
Password	
Confirm Password	
Comment	

Maintenance / User Account - Modify

Access Level: Super User ▾

User Name	admin
	<input type="checkbox"/> Change Password
New Password	
Retry Password	
Comment	

Operation	<p><u>Create:</u></p> <ol style="list-style-type: none"> 1. Click “Create” button to create page. 2. Fill user name, access level, password, confirm password and comment fields. 3. Click “Apply” to create setting data or click “Cancel” to cancel it. <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select one row data for delete. 2. Click “Delete” to delete selected data. <p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Click “Modify” button to modify page. 2. Select “Change Password” checkbox if you want to change password. 3. Fill user name, access level, New Password, Retry Password and comment fields. 4. Click “Apply” to apply change or click “Cancel” to cancel it.
Field	Description
User Name	Shows the user name (up to 32 characters).
Access Level	Show the access level of the user: Super User - The user can access to all functions. Engineer - The user can access to all functions except user account management. Guest - The user can access to basic display functions.
Password	Enter a login password of 1-31 characters.
Confirm Password	Enter the login password of previous field again.
New Password	Input new password when user want to change the password.
Retry Password	Input retry password as new password when user want to change the password.
Comment	Description of the user account (up to 31 characters).

2.5.11 SNMP

2.5.11.1 SNMP Options

Maintenance / SNMP Options		
Previous Command Result: Normal		
SNMP Restart	Loading SNMP configuration to system.	Restart
SNMP v3	Disabled ▼	Modify

Operation	<p><u>Restart:</u></p> <p>After any SNMP setting changed, only configuration is changed, but not apply to the system yet. All SNMP changed configuration could work after restart SNMP. It will not reboot system, but may take several seconds to load SNMP setting.</p> <p><u>Modify SNMP Version:</u></p> <p>This button is used to set whether snmp v3 is enable or not. If snmpV3 switch is set to disable, the system would use snmp v2c only. If snmpV3 switch is set to enable, the system would use snmp v3 setting. Changing this will restart SNMP automatically.</p> <p>The snmp v3 parameters would be valid only if snmp v3 is enabled.</p>
------------------	---

2.5.11.2 SNMP Community

Maintenance / SNMP Community

Community Name:

View/Group Name: none

Access Mode: Get/Set

Previous Command Result: Normal

<input type="checkbox"/>	Index	Community Name	View/Group Name	Access Mode
<input type="checkbox"/>	1	public	none	Get/Set

Operation	<p><u>Create:</u></p> <ol style="list-style-type: none"> 1. Fill the Community name. 2. Click "Create New" button to create new Community. <p><u>Modify community entry:</u></p> <ol style="list-style-type: none"> 1. Select entry by check up the check box 2. Modify field data: 3. Click "Modify" button to apply the change <p><u>Delete community entry:</u></p> <p>Select entry by check box, then click "Delete".</p> <p>Note: This page supports multi-selection, click one or more row items to delete. User also could click "select all" to delete all target items.</p>
Field	Description
Index	SNMP Community index, The system supports up to 32 Community data.
Community Name	<p>SNMP Community name, for SNMP v1/v2c.</p> <p>Only if community name match, the SNMP request would be received.</p> <p>Community Name max size is 31 characters.</p>

View/Group Name	<p>View and Group are used for SNMP v3 only.</p> <p>A community is allowed to bind one of the view or group name. If it does not take any group or view, it will be a v1/v2c community. If it takes a view or a group name, the community will be treated as a v3 community. The v2c and v3 communities could exist in the community table concurrently.</p> <p>It will display "unknown(name) when view/group name doesn't exist in view/group table.</p>
Access Mode	Choice access right. Allow Get operation only, or allow both Get and Set.

2.5.11.3 Trap Target

SNMP Notify:

Maintenance / SNMP Trap Target

[Create New](#)

[Modify](#) [Delete](#)

Previous Command Result: Normal

[Notify](#) [Target](#)

<input type="checkbox"/>	Index	Notify Name	Notify Tag
--------------------------	-------	-------------	------------

Operation	<p><u>Create:</u></p> <ol style="list-style-type: none"> 1. Click "Create New" button to create new notify tag. 2. Fill the notify name and notify tag. 3. Click "Apply" to create, "Cancel" to abort. <p><u>Modify:</u></p> <ol style="list-style-type: none"> 1. Select entry by check box 2. Modify field data 3. Click "Modify" button to apply change. <p><u>Delete:</u></p>
------------------	---

	<ol style="list-style-type: none"> 1. Select entry by check box 2. Click "Delete" button to delete Notify Tag item.
Field	Description
Index	SNMP notify tag index, The system supports up to 32 notify tags.
Notify Name	Name of Notify entry. Notify Name max size is 31 characters.
Notify Tag	<p>Notify Tag string.</p> <p>If tag of Target entry matches any tag from tags of Notify Table, then SNMP trap function would work.</p> <p>Notify Tag max size is 31 characters.</p>

SNMP Target:

Maintenance / SNMP Trap Target

Previous Command Result: Normal

<input type="checkbox"/>	Index	Target Data	Modify
--------------------------	-------	-------------	--------

Operation	<p><u>Create:</u></p> <ol style="list-style-type: none"> Click "Create New" button to create new target data Fill the target IP address, name, port number, and trap version. Give a new tag name or select a existing notify tag name as target name Click "Apply" to create, "Cancel" to abort. <p><u>Modify:</u></p> <p>Click row item "modify" button to modify existence target data.</p> <p><u>Delete:</u></p> <p>Select entry by check box, then click "Delete".</p> <p>Note: This page supports multi-selection, click one or more row items to delete. User also could click "select all" to delete all target items.</p>
Field	Description
Index	SNMP target index, The system supports up to 32 target entries.
Target Address	Target IP address, the host IP address of trap receiver. Value range 0.0.0.0 ~ 255.255.255.255
Address Port	Target Address port number. TCP Port number of Trap receiver. Range: 0 ~ 65535, Default is 162
Target Name	Name of target. Target Name max size is 31 characters.
Target Tag	Add a target tag, or pick up existing notify tag from Notify Table.
Trap Version	Select SNMP trap version. Supports v1/v2c

2.5.11.4 User

Maintenance / SNMP User

User Name:
 User Type:
 Group Name:

Auth Protocol:
 Auth Password:

Priv Protocol:
 Priv Password:

Previous Command Result: Normal

<input type="checkbox"/>	No.	User Name	Security Level	User Type	Group Name	Auth Protocol	Auth Password	Priv Protocol	Priv Password

Operation	<p><u>Create new:</u></p> <ol style="list-style-type: none"> Fill "User Name" and select "User Type", "Auth Protocol" and "Priv Protocol". Click "Create New" button to create new user. <p><u>Delete:</u></p> <ol style="list-style-type: none"> Select a row data in user account table (also support multi-select). Click "Delete" button to delete user account.
Field	Description
User Name	User name, length 1~31. Accept any characters except space, quote mark and "?".
User Type	SNMPv3 user type. Options: <ol style="list-style-type: none"> Read Only Read Write v3 User If "User type" is "v3 User", the "Group Name" should be provided. No matter which User Type is selected, the authentication and Privacy options are allowed.
Group Name	Access Group name, length 1~15. Accept any characters except space, quote mark and "?". If user type is "Read Only" or "Read Write", then this field is not needed.

Auth Protocol	<p>User authentication protocol. Works only if SNMPv3 is enabled.</p> <p>Options:</p> <ol style="list-style-type: none"> 1. None 2. MD5 3. SHA <p>If "Auth Protocol" is "None", "Priv Protocol" always is "None". If "Auth Protocol" is MD5 or SHA, "Auth Password" should be input.</p>
Auth Password	<p>Authentication password, length 8~15. Works only if SNMPv3 is enabled.</p> <p>Accept any characters except space, quote mark and "?".</p> <p>If Authentication Protocol is "None", then Privacy options are not needed.</p>
Priv Protocol	<p>User Privacy protocol. Works only if SNMPv3 is enabled.</p> <p>If "Priv Protocol" is not "None", "Priv Password" should be input.</p> <p>Options:</p> <ol style="list-style-type: none"> 1. None 2. DES
Priv Password	<p>Privacy password, length 8~15. Works only if SNMPv3 is enabled.</p> <p>Accept any characters except space, quote mark and "?".</p> <p>If "Priv Protocol" is "None" the field not needed.</p>

2.5.11.5 Group

Maintenance / SNMP Group

Group Name:
 Sec. Model: v3usm ▼
 Sec. Level: NoAuth, NoPriv ▼

Read View: ▼
 Write View: ▼

Previous Command Result: Normal

<input type="checkbox"/>	No.	Group Name	Security Model	Security Level	Read View	Write View
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Operation	<p><u>Create new:</u></p> <ol style="list-style-type: none"> Fill "Group Name" and select "Sec. Model", "Sec. Level". Click "Create New" button to create new group. <p>Note: max group entry: 32</p> <p><u>Delete :</u></p> <ol style="list-style-type: none"> Select a row data in VACM group table (also support multi-select). Click "Delete" button to delete user account.
Field	Description
Group Name	Group name, length 1~15. Accept any characters except space, quote mark and "?".
Security Model	<p>SNMP security model.</p> <p>Options:</p> <ul style="list-style-type: none"> - v1 supports read/write view. - v2c supports read/write view. - v3usm supports read/write view & security level.

<p>Security Level</p>	<p>User security level.</p> <p>If "Security Model" is "v1" or "v2c", the field is not used, it will be show as "--".</p> <p>States as below:</p> <ul style="list-style-type: none"> - NoAuth, NoPriv (No authentication and no Privacy) - Auth, NoPriv (Authentication and no Privacy) - Auth, Priv (Authentication and Privacy)
<p>Read View</p>	<p>Access View for Read (snmp-get)</p> <p>Select from the view list. If list is empty, create access view with page "SNMP View" first.</p> <p>It will display "unknown(xxxx)" when the name of xxxx doesn't exist in view name.</p>
<p>Write View</p>	<p>Access View for Write (snmp-set)</p> <p>Select from the view list. If list is empty, create access view with page "SNMP View" first.</p> <p>It will display "unknown(xxxx)" when the name of xxxx doesn't exist in view name.</p>

2.5.11.6 SNMP View

Maintenance / SNMP View

View Name:
 View Type:
 Sub Tree:

Delete Type

Previous Command Result: Normal

No.	View Name	View Type	Sub Tree
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Operation	<p><u>Create new:</u></p> <ol style="list-style-type: none"> 1. Fill "View Name", "Sub Tree" and select "View Type". 2. Click "Create New" button to create new view. <p>Note: max group entry: 32</p> <p><u>Delete:</u></p> <ol style="list-style-type: none"> 1. Select a row data in VACM view table (also support multi-select). 2. Click "Delete" button to delete user account. <p>VACM View can be delete by Name or by Index. Note that if delete by name, all entries with the same name would be deleted together.</p>
Field	Description
View Name	<p>View name, length 1~15.</p> <p>Accept any characters except space, quote mark and "?".</p>

View Type	<p>Accessible/Not accessible of object (SNMP OID).</p> <p>Select down list box:</p> <ol style="list-style-type: none"> 1. Include, allow access the subtree/oid; 2. Exclude, doesn't allow access the subtree/oid. <p>Note: the oid is a prefix, no need to match it exactly.</p> <p>For example: 1.3.6.1.2.1 (include), it means 1.3.6.1.2.1.* are accessible.</p> <p>For example: 1.3.6.1.2.1 (exclude), it means 1.3.6.1.2.1.* are NOT accessible.</p> <p>An example of wildcard(*):</p> <p>1.3.6.1.*.1 (include), it means that</p> <p>1.3.6.1.4.1.* are accessible and</p> <p>1.3.6.1.2.1.* are accessible.</p>
Sub Tree	<p>SNMP OID or Object Name of MIB</p> <p>Input format is OID, char length 1~31.</p> <p>Accept MIB object name "iswitch", or wildcard (*).</p> <p>iswitch represents 1.3.6.1.4.1.5833.2012</p> <p>For example:</p> <p>1.3.6.1.2.1</p> <p>1.3.6.1.4.1.5833.2012</p> <p>iswitch.1</p> <p>iswitch.2.6.1.1.*.4</p> <p>(iswitch.2.6.1.1 is EthernetPort Entry, it means this view include/exclude the 4th port of the table.)</p>