

UBS-5324
24 Port 10/100/1000Mbps
L2 Management Ethernet Switch

User Manual
V1.2
12/30/2015

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Hardware

Hardware Interface	24 x Port 10/100/1000Based-T, RJ-45
	1 x Factory Reset Button
	1 x Power Port
Temperature	Operating : 0°C ~ 50°C
	Storage : -40°C ~ 70°C
Humidity	5% ~ 95% (non-condensing)
Power	100~240Vac , 50/60Hz , 0.35A , Max 15 Watts
Dimension	270(W) 181(D) 45(H) mm
	Includes 19" rackmount brackets
Weight	1.15kg

Features

IP Version

- IPv4
- IPv6

Standards

- IEEE 802.1d (Spanning Tree Protocol)
- IEEE 802.1p (Traffic Prioritization)
- IEEE 802.1q (VLAN Tagging)
- IEEE 802.1s (Spanning Tree Protocol (MSTP))
- IEEE 802.3ad (Link Aggregation)
- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3ab (Twisted Pair Gigabit Ethernet)
- IEEE 802.3ad (Link Aggregation Control Protocol LACP)
- IEEE 802.3az (Energy Efficient Ethernet EEE)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3x (Flow Control, for full duplex mode)

VLAN

- IEEE802.1Q Tag-based VLAN
- Support Port-based VLAN
- Support Static VLAN
- Port Isolation
- Management VLAN
- Voice VLAN (OUI Mode)

QoS

- Support 8 Queues
- Supports Port-based, Flow-based, IP DSCP and IP TOS Precedence
- Supports 802.1p VLAN Priority based
- Supports WRR, WFQ and Strict Priority
- Support Ingress/Egress Bandwidth Control 16Kbps 0-10000000

Link Aggregation

- Support Static Trunk with 8 Groups
- Up to 8 Ports for Each Group
- Support Traffic Load Balancing

Security

- Support AAA
- Support TACACS+ Server
- Support Radius Server

Management

- WebUI or Telent Configuration
- Support Access Control List(ACL)
- Support Static MAC address table, Have Dynamic MAC Address Information
- Support SNMP v1, v2c, v3 (Support UBLINK.org Switch Viewer)
- Support RMON
- Support IGMP Snooping v2/v3
- Firmware Backup/Upgrade by HTTP/TFTP
- Support Porting Mirroring , Multi-Session Port Mirror
- Support DHCP Client
- Support DHCP Snooping
- Support MLD Snooping v1/v2
- Support Loop Detection
- IEEE802.3az Energy Efficient Ethernet Task Force
- Support DoS
- Support SNTP Server Settings
- Supports 8k MAC address entries
- Support Jumbo Frame 9K (64-9216)
- Switch Backplane bandwidth 56Gbps

Diagnostics

- Support Cable Diagnostics
- Support IPv4/IPv6 Ping Test
- Support Trace Router

Ps : The company has the right to change specifications

How to Login the Switch

Use standard Cat.5/5e Ethernet cable (UTP/STP) to connect the Switch to end nodes as described below.

Switch Default Setting is

Default IP address	192.168.2.1
Default user name	admin
Default password	admin



Enter the Username and Password (The factory default Username is **admin** and Password is **admin**), and then click “LOGIN” to log in to the Switch configuration window as below.

SAVE | LOGOUT | REBOOT | REFRESH

- Status
- Network
- Switching
- MAC Address Table
- Security
- ACL
- QoS
- Management
- Diagnostics
- Maintenance

System Information

Information Name	Information Value
System Name	Edit Switch
System Location	Edit Default Location
System Contact	Edit Default Contact
MAC Address	00:13:4B:11:4C:37
IP Address	192.168.254.77
Subnet Mask	255.255.255.0
Gateway	192.168.254.254
Loader Version	2011.12.41872

Reset Button Factory Default

Push the button wait to Led All off

1. Switch Tools Bar

SAVE | LOGOUT | REBOOT | REFRESH

- Save Configurations to FLASH
- Restore to Defaults
- Switching
- MAC Address Table
- Security
- ACL
- QoS

System Information

SAVE

Save Configurations to FLASH

Restore to Defaults

LOGOUT

REBOOT

REFRESH

Status

System Information

System Information



System Information

Information Name	Information Value
System Name	Edit Switch
System Location	Edit Default Location
System Contact	Edit Default Contact
MAC Address	00:13:4B:11:4C:37
IP Address	192.168.254.77
Subnet Mask	255.255.255.0
Gateway	192.168.254.254
Loader Version	2011.12.41872
Loader Date	Oct 25 2013 - 18:53:39
Firmware Version	3.0.0.43126
Firmware Date	Wed Feb 5 09:35:57 CST 2014
System Object ID	1.3.6.1.4.1.27282.3.2.10
System Up Time	10 days, 13 hours, 49 mins, 48 secs
PCB/HW Version	

System Name

System Location

System Contact

MAC Address

IP Address

Subnet Mask

Gateway

Loader Version

Loader Date

Firmware Version

Firmware Date

System Object ID :

System Up Time

PCB/HW Version

Logging Message

Logging Message

Logging Filter Select

Target	Severity	Category
buffered ▾	Select Levels ▾	Select Categories ▾

View

Logging Information

Information Name	Information Value
Target	buffered
Severity	emerg, alert, crit, error, warning, notice
Category	AAA, ACL, CABLE_DIAG, DAI, DHCP_SNOOPING, Dot1X, GVRP, IGMP_SNOOPING, IPSG, L2, LLDP, Mirror, MLD_SNOOPING, Platform, PM, Port, PORT_SECURITY, QoS, Rate, SNMP, STP, RMA, Security-suite, System, Trunk, VLAN
Total Entries	677

Logging Messages

Clear buffered messages **Refresh**

FIRST	PREV	1	2	3	4	5	6	7	NEXT	LAST
No.	Timestamp	Category	Severity	Message						
1	Jan 11 21:14:52	Port	notice	Port gi4 link up						
2	Jan 11 20:51:04	Port	notice	Port gi8 link up						
3	Jan 11 20:48:30	Port	notice	Port gi8 link down						
4	Jan 11 20:47:30	Port	notice	Port gi6 link down						
5	Jan 11 20:43:58	Port	notice	Port gi6 link up						
6	Jan 11 20:43:56	Port	notice	Port gi6 link down						
7	Jan 11 20:42:42	Port	notice	Port gi6 link up						
8	Jan 11 20:42:40	Port	notice	Port gi6 link down						
9	Jan 11 20:42:31	Port	notice	Port gi6 link up						
10	Jan 11 20:42:29	Port	notice	Port gi6 link down						
11	Jan 11 20:39:46	Port	notice	Port gi6 link up						
12	Jan 11 20:37:44	Port	notice	Port gi9 link up						
13	Jan 11 20:29:00	Port	notice	Port gi3 link up						
14	Jan 11 20:28:58	Port	notice	Port ai3 link down						

Target : buffered

Severity : emerg, alert, crit, error, warning, notice

Category : AAA, ACL, CABLE_DIAG, DAI, DHCP_SNOOPING, Dot1X, GVRP, IGMP_SNOOPING, IPSG, L2, LLDP, Mirror, MLD_SNOOPING, Platform, PM, Port, PORT_SECURITY, QoS, Rate, SNMP, STP, RMA, Security-suite, System, Trunk, VLAN

Total Entries :

Port**Port Counters**

Port Counters	
Port MIB Counters Settings	
Port	Mode
GE1	<input checked="" type="radio"/> All <input type="radio"/> Interface <input type="radio"/> Etherlike <input type="radio"/> RMON
GE1 mib Counters	
Clear	
IF mib Counter Name	mib Counter Value
ifInOctets	1345616785
ifInUcastPkts	19876643
ifInNUcastPkts	113889
ifInDiscards	0
ifOutOctets	3924443859
ifOutUcastPkts	7495438
ifOutNUcastPkts	326529
ifOutDiscards	0

Port MIB Counters Settings**Port Error Disabled**

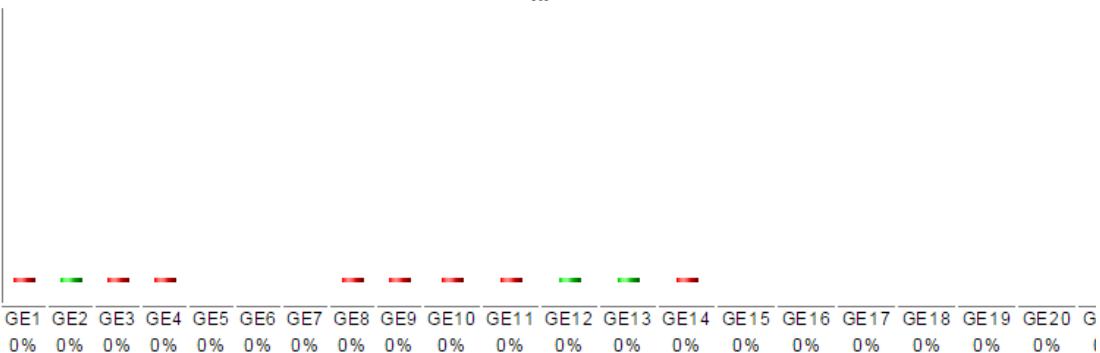
Port Error Disabled Status		
Port Name	Error Disabled Reason	Time Left (Seconds)

Port Error Disabled Status**Bandwidth Utilization**

Port Bandwidth Utilization

█ Gbps █ 100Mbps █ 10Mbps █ Link Down Refresh period: sec IFG:

Tx



Rx

Port Bandwidth Utilization**Link Aggregation****LAG Status****LAG Status**

LAG	Name	Type	Link State	Active Member	Standby Member
LAG1		---	Not Present	-	-
LAG2		---	Not Present	-	-
LAG3		---	Not Present	-	-
LAG4		---	Not Present	-	-
LAG5		---	Not Present	-	-
LAG6		---	Not Present	-	-
LAG7		---	Not Present	-	-
LAG8		---	Not Present	-	-

LACP Information**LAG Status**

LLDP Statistics**LLDP Statistics****▼ LLDP Global Statistics****Clear Refresh**

Insertions	3
Deletions	3
Drops	0
Age Outs	0

▼ LLDP Port Statistics

Port	TX Frames		RX Frames			RX TLVs		RX Ageouts
	Total	Total	Discarded	Errors	Discarded	Unrecognized	Total	
GE1	5139	0	0	0	0	0	0	0
GE2	30561	0	0	0	0	0	0	0

LLDP Global Statistics**LLDP Port Statistics****GVRP Statistics****GVRP Statistics****▼ GVRP Port Statistics****Clear Refresh**

Port	Join Empty (Rx/Tx)	Empty (Rx/Tx)	Leave Empty (Rx/Tx)	Join In (Rx/Tx)	Leave In (Rx/Tx)	Leave All (Rx/Tx)
GE1	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE2	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE3	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE4	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE5	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE6	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE7	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE8	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE9	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE10	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
GE11	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0

GVRP Port Statistics

IGMP Snooping Statistics

IGMP Snooping Statistics	
<input type="button" value="Clear"/> <input type="button" value="Refresh"/>	
Statistics Packets	Counter
Total RX	51053
Valid RX	49127
Invalid RX	1926
Other RX	0
Leave RX	0
Report RX	0
General Query RX	0
Specail Group Query RX	0
Specail Group & Source Query RX	0
Leave TX	0
Report TX	0
General Query TX	0

Statistics Packets Counter

Total RX
 Valid RX
 Invalid RX
 Other RX
 Leave RX
 Report RX
 General Query RX
 Specail Group Query RX
 Specail Group & Source Query RX
 Leave TX
 Report TX
 General Query TX
 Specail Group Query TX
 Specail Group & Source Query TX

MLD Statistics

MLD Snooping Statistics	
▼ MLD Snooping Statistics	
Statistics Packets	Counter
Total RX	0
Valid RX	0
Invalid RX	0
Other RX	0
Leave RX	0
Report RX	0
General Query RX	0
Specail Group Query RX	0
Specail Group & Source Query RX	0
Leave TX	0
Report TX	0
General Query TX	0

2. Network

IP Address

IP Address	
IP Address Setting	
Mode	<input checked="" type="radio"/> Static <input type="radio"/> DHCP
IP Address	192.168.254.77
Subnet Mask	255.255.255.0
Gateway	192.168.254.254
DNS Server 1	168.95.1.1
DNS Server 2	168.95.192.1

Apply

▼ IP Information	
Information Name	Information Value
DHCP State	Disabled
Static IP Address	192.168.254.77
Static Subnet Mask	255.255.255.0
Static Gateway	192.168.254.254
Static DNS Server 1	168.95.1.1
Static DNS Server 2	168.95.192.1

Mode : Static / DHCP

IP Address

Subnet Mask

Gateway

DNS Server 1

DNS Server 2

IPv6 Address

IPv6 Address

IPv6 Address Setting

Auto Configuration	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
IPv6 Address	:: <input style="width: 100px;" type="text"/> / <input style="width: 20px;" type="text"/>
Gateway	:: <input style="width: 100px;" type="text"/>
DHCPv6 Client	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

Apply

IPv6 Information

Information Name	Information Value
Auto Configuration	Enabled
IPv6 In Use Address	fe80::213:4bff:fe11:4c37 / 64
IPv6 In Use Router	fe80::eef0:eff:fe2b:1da6
IPv6 Static Address	fe80::213:4bff:fe11:4c37 / 0
IPv6 Static Router	::
DHCPv6 Client	Disabled

Auto Configuration Disable/Enable

IPv6 Address / Prefix Length

Gateway

DHCPv6 Client Disable/Enable

Management VLAN

Management VLAN Setting

Management VLAN Setting

Management VLAN

Management VLAN State

Config Name	Config Value
Management VLAN	1

Default Management VLAN is 1

Time Settings

System Time

System Time

System Time Setting

Enable SNTP	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Manual Time	Year <input type="button" value="2000 ▾"/> Month <input type="button" value="Jan ▾"/> Day <input type="button" value="1 ▾"/> Hours <input type="button" value="0 ▾"/> Minutes <input type="button" value="0 ▾"/> Seconds <input type="button" value="0 ▾"/>
Time Zone	<input type="button" value="None ▾"/>
Daylight Saving Time	<input type="button" value="Disable ▾"/>
Daylight Saving Time Offset	<input type="button" value="60"/> (1 - 1440) Minutes
Recurring From	Day <input type="button" value="Sun ▾"/> Week <input type="button" value="1 ▾"/> Month <input type="button" value="Jan ▾"/> Hours <input type="button" value="0 ▾"/> Minutes <input type="button" value="0 ▾"/>
Recurring To	Day <input type="button" value="Sun ▾"/> Week <input type="button" value="1 ▾"/> Month <input type="button" value="Jan ▾"/> Hours <input type="button" value="0 ▾"/> Minutes <input type="button" value="0 ▾"/>
Non-recurring From	Year <input type="button" value="2000 ▾"/> Month <input type="button" value="Jan ▾"/> Date <input type="button" value="1 ▾"/> Hours <input type="button" value="0 ▾"/> Minutes <input type="button" value="0 ▾"/>
Non-recurring To	Year <input type="button" value="2000 ▾"/> Month <input type="button" value="Jan ▾"/> Date <input type="button" value="1 ▾"/> Hours <input type="button" value="0 ▾"/> Minutes <input type="button" value="0 ▾"/>

System Time Informations

Information Name	Information Value
Current Date/Time	08:20:00 DFL(UTC+8) Jan 12 2000
SNTP	Disabled
Time zone	UTC+8
Daylight Saving Time	Disabled
Daylight Saving Time Offset	
From	
To	

Enable SNTP Disable

Manual Time

Time Zone : Must choice right Time Zone

Daylight Saving Time

Daylight Saving Time Offset

Recurring From

Recurring To

Non-recurring From

Non-recurring To

SNTP Settings**SNTP Server Settings****SNTP Server Settings**

SNTP/NTP Server Address	<input type="text"/> (X.X.X.X or Hostname)
Server Port	123 (1 - 65535 Default : 123)

Apply

▼ SNTP Server Informations

Information Name	Information Value
SNTP Server Address	
SNTP Server Port	0

SNTP/NTP Server Address

IP Address	Domain
137.189.11.63	clock.cuhk.edu.hk
209.81.9.7	clock.via.net
193.79.237.14	ntp1.nl.net
131.188.3.220	ntp0.fau.de

Server Port Default tcp 123

3. Switching

Port Setting

Port Setting

Port Select	Enabled	Speed	Duplex	Flow Control
Select Ports <input type="button" value="▼"/>	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Auto <input type="button" value="▼"/>	Auto <input type="button" value="▼"/>	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Port Status

Port	Description	Enable State	Link Status	Speed	Duplex	FlowCtrl Config	FlowCtrl Status
GE1	<input type="button" value="Edit"/>	Enabled	UP	A-1000M	A-Full	Disabled	Disabled
GE2	<input type="button" value="Edit"/>	Enabled	UP	A-100M	A-Full	Disabled	Disabled
GE3	<input type="button" value="Edit"/>	Enabled	UP	A-1000M	A-Full	Disabled	Disabled
GE4	<input type="button" value="Edit"/>	Enabled	UP	A-1000M	A-Full	Disabled	Disabled
GE5	<input type="button" value="Edit"/>	Enabled	DOWN	Auto	Auto	Disabled	Disabled
GE6	<input type="button" value="Edit"/>	Enabled	DOWN	Auto	Auto	Disabled	Disabled

Port Select : GE1-GE24

Enabled : Switch Port Enable/Disable

Speed :

Auto <input type="button" value="▼"/>
Auto
Auto-10M
Auto-100M
Auto-1000M
Auto-10/100M
10M
100M
1000M

Auto

Auto-10M

Auto-100M

Auto-1000M

Auto-10/100M

10M

100M

1000M

Duplex : Full / Half

Flow Control : Enable/Disable

Error Disable

Error Disabled Settings

Error Disabled Recovery

Recovery Interval	<input type="text" value="300"/> (Seconds)
BPDU Guard	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Self Loop	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Broadcast Flood	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Unknown Multicast Flood	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Unicast Flood	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
ACL	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Port Security Violation	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
DHCP rate limit	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
ARP rate limit	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Apply

▼ Error Disable Information

Recovery Interval 300 (Seconds)
 BPDU Guard : Enabled/Disabled
 Self Loop : Enabled/Disabled
 Broadcast Flood : Enabled/Disabled
 Unknown Multicast Flood : Enabled/Disabled
 Unicast Flood : Enabled/Disabled
 ACL : Enabled/Disabled
 Port Security Violation : Enabled/Disabled
 DHCP rate limit : Enabled/Disabled
 ARP rate limit : Enabled/Disabled

Mirror

Local Mirror Setting

Mirror Setting

Session ID	Select Session ▾
Monitor session state	Disable ▾
Destination Port	GE1 ▾
allow-ingress	Disable ▾
Sniffer RX Ports	Select RX Ports ▾
Sniffer TX Ports	Select TX Ports ▾

Apply

Mirror Status

Session ID	Destination Port	Ingress State	Source TX Port	Source RX Port
1	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

Mirror Session ID Have 1/2/3/4

Multi Mirror

Session ID : Select Session

Monitor session state : Disable/portbase-enabled

Destination Port : GE1-GE24

allow-ingress: Disable/Enable

Sniffer RX Ports : Select RX Ports

Sniffer TX Ports : Select TX Ports

Link Aggregation

LAG Setting

LAG Setting

Load Balance Algorithm	<input checked="" type="radio"/> MAC Address <input type="radio"/> IP/MAC Address
------------------------	---

Apply

LAG Information

Information Name	Information Value
Load Balance Algorithm	src-dst-mac

Load Balance Algorithm MAC Address IP/MAC Address

LAG Management

LAG Management

LAG	Name	Type	Ports
LAG1		<input checked="" type="radio"/> Static <input type="radio"/> LACP	Select Ports ▾

Apply

LAG Management Information

LAG	Name	Type	Link State	Active Member	Standby Member	Modify
LAG1		---	Not Present	-	-	Edit
LAG2		---	Not Present	-	-	Edit
LAG3		---	Not Present	-	-	Edit
LAG4		---	Not Present	-	-	Edit
LAG5		---	Not Present	-	-	Edit
LAG6		---	Not Present	-	-	Edit
LAG7		---	Not Present	-	-	Edit
LAG8		---	Not Present	-	-	Edit

LAG Type Static/LACP

Support Static Trunk with 8 Groups

Up to 8 Ports for Each Group

LAG Port Setting

LAG Port Setting

LAG Port settings

LAG Select	Enabled	Speed	Flow Control
Select LAGs	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Auto	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Apply

LAG Port Status

LAG	Description	Port Type	Enable State	Link Status	Speed	Duplex	FlowCtrl Config	FlowCtrl Status
LAG1			Enabled		Auto	Auto	Disabled	Disabled
LAG2			Enabled		Auto	Auto	Disabled	Disabled
LAG3			Enabled		Auto	Auto	Disabled	Disabled
LAG4			Enabled		Auto	Auto	Disabled	Disabled
LAG5			Enabled		Auto	Auto	Disabled	Disabled
LAG6			Enabled		Auto	Auto	Disabled	Disabled
LAG7			Enabled		Auto	Auto	Disabled	Disabled
LAG8			Enabled		Auto	Auto	Disabled	Disabled

VLAN Management

Create VLAN

Create VLAN

VLAN Setting

VLAN LIST	VLAN Action	VLAN Name Prefix
	<input checked="" type="radio"/> Add <input type="radio"/> Delete	

Apply

VLAN Table

FIRST	PREV	1	NEXT	LAST
VLAN ID	VLAN Name	VLAN Type	Modify	
1	default	Default	Edit	

Interface Settings

Interface Settings

Edit Interface Setting

Port Select	Interface VLAN Mode	PVID	Accepted Type	Ingress Filtering	Uplink	TPID
Select Ports ▾	<input checked="" type="radio"/> Hybrid <input type="radio"/> Access <input type="radio"/> Tunnel	<input type="text" value="1"/> (1 - 4094)	<input checked="" type="radio"/> All <input type="radio"/> Tag Only <input type="radio"/> Untag Only	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	<input type="text" value="0x8100"/>

Apply

Port VLAN Status

Port	Interface VLAN Mode	PVID	Accept Frame Type	Ingress Filtering	Uplink	TPID
GE1	Trunk	1	ALL	Enabled	Disabled	0x8100
GE2	Trunk	1	ALL	Enabled	Disabled	0x8100
GE3	Trunk	1	ALL	Enabled	Disabled	0x8100
GE4	Trunk	1	ALL	Enabled	Disabled	0x8100
GE5	Trunk	1	ALL	Enabled	Disabled	0x8100
GE6	Trunk	1	ALL	Enabled	Disabled	0x8100

Port to VLAN

Port to VLAN

Port to VLAN Settings

VLAN ID :

Port	Interface VLAN Mode	Membership	PVID
GE1	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE2	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE3	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE4	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE5	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE6	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE7	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE8	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE9	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>
GE10	Trunk	<input type="radio"/> Forbidden <input type="radio"/> Excluded <input type="radio"/> Tagged <input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>

Port VLAN Membership

Port VLAN Membership

Port VLAN Membership Table

Port	Mode	Administrative VLANs	Operational VLANs	Modify
GE1	Trunk	1UP	1UP	Edit
GE2	Trunk	1UP	1UP	Edit
GE3	Trunk	1UP	1UP	Edit
GE4	Trunk	1UP	1UP	Edit
GE5	Trunk	1UP	1UP	Edit
GE6	Trunk	1UP	1UP	Edit
GE7	Trunk	1UP	1UP	Edit
GE8	Trunk	1UP	1UP	Edit
GE9	Trunk	1UP	1UP	Edit
GE10	Trunk	1UP	1UP	Edit
GE11	Trunk	1UP	1UP	Edit
GE12	Trunk	1UP	1UP	Edit

Protocol VLAN Group Setting

Protocol VLAN Group Setting

Add Protocol VLAN Group

Group ID (1-8)	<input type="text" value="1"/>
Frame Type	<input type="text" value="Ethernet_II"/>
Protocol Value (0x0600-0xFFFF)	<input type="text"/>

[Add](#)

Protocol VLAN Group State

Group ID	Frame Type	Protocol Value	Delete

Protocol VLAN Port Setting

Protocol VLAN Port Setting

Port	Group	VLAN
Select Ports	<input type="radio"/> Group ID <input type="text"/>	<input checked="" type="radio"/> VLAN ID(1-4094) <input type="text" value="1"/>

Add

Protocol VLAN Port State

Port	Group ID	VLAN ID	Delete

Voice VLAN

Properties

Properties

Voice VLAN State	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Voice VLAN Id	<input type="text" value="default(1)"/>
Remark Cos/802.1p	<input type="text" value="6"/>
1p remark	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Aging Time(30-65536 min)	<input type="text" value="1440"/>

Apply

Voice VLAN State

Information Name	Information Value
Voice VLAN State	disabled
Voice VLAN ID	1
Remark Cos/802.1p	6
1p Remark State	disabled

Telephony OUI Mac Setting

Telephony OUI Mac setting**Voice VLAN OUI Setting**

OUI Address	00:00:00
Description	

Add**Voice VLAN OUI Group**

OUI Address	Description	Modify
00:E0:BB	3COM	Edit Delete
00:03:6B	Cisco	Edit Delete
00:E0:75	Veritel	Edit Delete
00:D0:1E	Pingtel	Edit Delete
00:01:E3	Siemens	Edit Delete
00:60:B9	NEC/Philips	Edit Delete
00:0F:E2	H3C	Edit Delete

Telephony OUI Port Setting

Telephony OUI Port Setting**Voice VLAN Port Setting**

Port	State	Cos Mode
Select Ports	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled <input type="radio"/> All <input checked="" type="radio"/> Src	

Apply**Voice VLAN Port State**

Port	State	Cos Mode
GE1	Disabled	Src
GE2	Disabled	Src
GE3	Disabled	Src
GE4	Disabled	Src
GE5	Disabled	Src
GE6	Disabled	Src
GE7	Disabled	Src

GVRP**GVRP Setting**

GVRP Setting

GVRP	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
-------------	---

Apply

GVRP Informations

Information Name	Information Value
GVRP Status	Disabled
Join Timeout	200 millisecond
Leave Timeout	600 millisecond
LeaveAll Timeout	10000 millisecond

GVRP Port Setting

GVRP Port Setting

Port settings

Port Select	GVRP Enabled	Registration Mode	Vlan Creation
Select Ports ▾	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Normal ▾	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled

Apply

GVRP Port Status

Port	Enable State	Registration Mode	Vlan Creation State
GE1	Disabled	Normal	Enabled
GE2	Disabled	Normal	Enabled
GE3	Disabled	Normal	Enabled
GE4	Disabled	Normal	Enabled
GE5	Disabled	Normal	Enabled
GE6	Disabled	Normal	Enabled

GVRP VLAN**GVRP VLAN Database****▼ GVRP VLAN Database**

VLAN ID	Member Ports	Dynamic Ports	VLAN Type

EEE**EEE Setup****EEE Port settings**

Port	Enable
Select Ports ▾	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Apply**▼ EEE Enable Status**

Port	EEE State
GE1	Disabled
GE2	Disabled
GE3	Disabled
GE4	Disabled
GE5	Disabled
GE6	Disabled
GE7	Disabled

Multicast**Properties****Properties****Properties Setting**

Unknown Multicast Action	<input type="radio"/> Drop <input checked="" type="radio"/> Flood <input type="radio"/> Router Port
IPv4 Forward Method	<input checked="" type="radio"/> MAC <input type="radio"/> Src-Dst-Ip
IPv6 Forward Method	<input checked="" type="radio"/> MAC <input type="radio"/> Src-Dst-Ip

Apply**Properties Informations**

Information Name	Information Value
Unknown Multicast Action	Flood
Forwarding Method For IPv4	MAC
Forwarding Method For IPv6	MAC

IGMP Snooping**IGMP Setting****IGMP Snooping**

IGMP Snooping Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IGMP Snooping Version	<input checked="" type="radio"/> v2 <input type="radio"/> v3
IGMP Snooping Report Suppression	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Apply**IGMP Snooping Informations**

Information Name	Information Value
IGMP Snooping Status	Enable
IGMP Snooping Version	v2
IGMP Snooping V2 Report Suppression	Enable

IGMP Querier Setting

IGMP Snooping Querier Setting

IGMP Querier Setting

VLAN ID	Querier State	Querier Version
Select VLANs	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	<input checked="" type="radio"/> v2 <input type="radio"/> v3

Apply

IGMP Querier Status

VLAN ID	Querier State	Querier Status	Querier Version	Querier IP
1	disabled	Non-Querier	---	---

IGMP Static Group

IGMP Static Group

Add IGMP Static Group

VLAN ID	Group IP Address	Member Ports
Select VLANs		Select Ports

Add

IGMP Static Groups

VLAN ID	Group IP Address	Member Ports	Modify
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IGMP Group Table

IGMP Group Table

IGMP Group Table

VLAN ID	Group IP Address	Member Ports	Type	Life(Sec)
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IGMP Router Setting

IGMP Router Port Setting

Add Router Port

VLAN ID	Type	Static Ports Select	Forbid Ports Select
Select VLANs	<input checked="" type="radio"/> Static <input type="radio"/> Forbid	Select Static Ports	Select Forbid Ports

Add

Router Ports Status

VLAN ID	Static Ports	Forbidden Ports	Modify
---------	--------------	-----------------	--------

IGMP Router Table

IGMP Router Table

Dynamic Router Table

VLAN ID	Port	Expiry Time (Sec)
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Static Router Table

VLAN ID	PortMask
---------	----------

Forbbiden Router Table

VLAN ID	PortMask
---------	----------

IGMP Forward All

IGMP Forward All

▼ Forward All

VLAN ID : ▾

Port	Membership
GE1	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE2	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE3	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE4	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE5	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE6	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE7	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE8	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE9	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE10	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None

MLD Snooping

MLD Setting

MLD Snooping

MLD Snooping

MLD Snooping Status	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
MLD Snooping Version	<input checked="" type="radio"/> v1 <input type="radio"/> v2
MLD Snooping Report Suppression	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Apply

▼ MLD Snooping Informations

Information Name	Information Value
MLD Snooping Status	Disable
MLD Snooping Version	v1
MLD Snooping V2 Report Suppression	Enable

MLD Static Group

MLD Static Group

Add Mld Static Group

VLAN ID	Group IP Address	Member Ports
Select VLANs	::	Select Ports

Add

MLD Static Groups

VLAN ID	Group IPv6 Address	Member Ports	Modify
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MLD Group Table

MLD Group Table

MLD Group Table

VLAN ID	Group IP Address	Member Ports	Type	Life(Sec)
---------	------------------	--------------	------	-----------

MLD Router Setting

MLD Router Port Setting

Add Router Port

VLAN ID	Type	Static Ports Select	Forbid Ports Select
Select VLANs	<input checked="" type="radio"/> Static <input type="radio"/> Forbid	Select Static Ports	Select Forbid Ports

Add

MLD Router Ports Status

VLAN ID	Static Ports	Forbidden Ports	Modify
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MLD Router Table

MLD Router Table

▼ Dynamic Router Table

VLAN ID	Port	Expiry Time (Sec)
---------	------	-------------------

▼ Static Router Table

VLAN ID	PortMask
---------	----------

▼ Forbidden Router Table

VLAN ID	PortMask
---------	----------

MLD Forward All

MLD Forward All

▼ Forward All

VLAN ID : ▼

Port	Membership
GE1	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE2	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE3	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE4	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE5	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE6	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE7	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None
GE8	<input type="radio"/> Static <input type="radio"/> Forbidden <input checked="" type="radio"/> None

Multicast Throttling Setting

Multicast Port Max-Groups

Max groups and action Setting

Ip Type	Port Select	Max Groups	Action
ipv4	Select Ports	256 (0-256)	<input checked="" type="radio"/> Deny <input type="radio"/> Replace

Apply

IGMP Port Max Groups Information

Port	Max Groups	Action
GE1	256	Deny
GE2	256	Deny
GE3	256	Deny
GE4	256	Deny
GE5	256	Deny
GE6	256	Deny
GE7	256	Deny

Multicast Filter

Multicast Profile Setting

Multicast Profile Setting

Add Profile

Ip Type	ipv4
Profile Index	1 (1-128)
Group from	
Group to	
Action	<input checked="" type="radio"/> Permit <input type="radio"/> Deny

Add

IGMP Profile Status

Index	Ip type	Group from	Group to	Action	Modify

IGMP Filter Setting

IGMP Snooping Filter Setting

Filter Setting

Port Select	Filter Profile ID
Select Ports	<input type="button" value="▼"/>

Port Filter Status

Port	Filter Profile ID	Action

MLD Filter Setting

MLD Snooping Filter Setting

Filter Setting

Port Select	Filter Profile ID
Select Ports	<input type="button" value="▼"/>

Port Filter Status

Port	Filter Profile ID	Action

Jumbo Frame

Jumbo Frame

Jumbo Frame Setting

Jumbo Frame (Bytes)	<input type="text" value="1522"/> (64-9216)
---------------------	---

Jumbo Frame Config

Information Name	Information Value
Jumbo Frame (Bytes)	1522

Jumbo Frame support 64 ~ 9216

STP**STP Global Setting****STP Global Setting****Global Setting**

Enabled	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
BPDU Forward	<input checked="" type="radio"/> flooding <input type="radio"/> filtering
PathCost Method	<input type="radio"/> short <input checked="" type="radio"/> long
Force Version	RSTP-Operation ▼
Configuration Name	00:13:4B:11:4C:37 (Max.32 character)
Configuration Revision	0 (0 - 65535)

Apply**▼ STP Informations**

Information Name	Information Value
STP	Enabled
BPDU Forward	flooding

STP Port Setting**STP Port Setting**

Port Select	External Path Cost (0 = Auto)	Edge Port	BPDU Filter	BPDU Guard	P2P MAC	Migrate
Select Ports ▼	0	No ▼	No ▼	No ▼	Yes ▼	<input type="checkbox"/>

Apply**▼ CIST Port Status**

Port	Admin Enable	External Cost	Edge Port	BPDU Filter	BPDU Guard	P2P MAC
GE1	Enable	0	No	No	No	Yes
GE2	Enable	0	No	No	No	Yes
GE3	Enable	0	No	No	No	Yes
GE4	Enable	0	No	No	No	Yes
GE5	Enable	0	No	No	No	Yes
GE6	Enable	0	No	No	No	Yes

CIST Instance Setting**CIST Instance Setting****CIST Instance Setting**

Priority	32768
Max Hops	20 (1-40)
Forward Delay	15 (4-30)
Max Age	20 (6-40)
Tx Hold Count	6 (1-10)
Hello Time	2 (1-10)

Apply**▼ CIST Instance Information**

Information Name	Information Value
Priority	32768
Max Hops	20

CIST Port Setting**CIST Port Setting**

Port Select	Priority	Internal Path Cost (0 = Auto)
Select Ports	128	0

Apply**▼ CIST Port Status**

Port	Identifier (Priority / Port Id)	External Path Cost Conf/Oper	Internal Path Cost Conf/Oper	Designated Root Bridge	External Root Cost	Regional Root Bridge	Internal Root Cost	Des Brid
GE1	128 / 1	0 / 20000	0 / 20000	32768 / 00:13:4B:11:4C:37	0	32768 / 00:13:4B:11:4C:37	0	32768 / 00:13:4B:11:4C:37
GE2	128 / 2	0 / 200000	0 / 200000	32768 / 00:13:4B:11:4C:37	0	32768 / 00:13:4B:11:4C:37	0	32768 / 00:13:4B:11:4C:37
GE3	128 / 3	0 / 20000	0 / 20000	32768 / 00:13:4B:11:4C:37	0	32768 / 00:13:4B:11:4C:37	0	32768 / 00:13:4B:11:4C:37

MST Instance Setting**MST Instance Setting****MST Instance Setting**

MSTI ID (1-15)	VLAN List (1-4094)	Priority
1		32768

Apply**▼ MST Instance Setting Information**

MSTI	Status	VLAN List	VLAN Count	Priority

▼ MST Instance Status

Information Name	Information Value
MSTI ID	1

MST Port Setting**MST Port Setting**

MST ID	Port Select	Priority	Internal Path Cost (0 = Auto)
1	Select Ports	128	0

Apply**▼ MST Port Status**

MSTI ID	Port	Identifier (Priority / Port Id)	Internal Path Cost Conf/Oper	Regional Root Bridge	Internal Root Cost	Designated Bridge	Internal Path Cost	Port Role	Port State
1	GE1	128/1	0/-	--/-	--	--/-	--	--	--
1	GE2	128/2	0/-	--/-	--	--/-	--	--	--
1	GE3	128/3	0/-	--/-	--	--/-	--	--	--

STP Statistics**STP Statistics****▼ STP Statistics**

Port	Configuration BDPUs Received	TCN BDPUs Received	MSTP BDPUs Received	Configuration BDPUs Transmitted	TCN BDPUs Transmitted	MSTP BDPUs Transmitted
GE1	0	0	0	0	0	79159
GE2	0	0	0	0	0	459503
GE3	0	0	0	0	0	103098
GE4	0	0	0	0	0	15441
GE5	0	0	0	0	0	0
GE6	0	0	0	0	0	13993
GE7	0	0	0	0	0	59163
GE8	0	0	0	0	0	102148
GE9	0	0	0	0	0	85776
GE10	0	0	0	0	0	459454
GE11	0	0	0	0	0	103282

4. MAC Address Table**Static MAC Setting****Static MAC****Static MAC Setting**

MAC Address	VLAN	Port
00:00:00:00:00:00	default ▾	GE1 ▾

Add**▼ Static MAC Status**

No.	MAC Address	VLAN	Port	Delete
1	00:13:4B:11:4C:37	default(1)	CPU	

Dynamic Address Setting

Dynamic Address Setting

Aging Time	<input type="text" value="300"/> (Range: 10 - 630)
------------	--

Apply

Dynamic Address Status

Information Name	Information Value
Aging time	300

Dynamic Learned

Dynamic Learned

<input type="checkbox"/> Port	GE1
<input type="checkbox"/> VLAN	default
<input type="checkbox"/> MAC Address	00:00:00:00:00:00

View **Clear**

MAC Address Information

FIRST	PREV	1	NEXT	LAST
MAC Address	VLAN	Type	Port	
00:00:5A:11:6E:D1	default(1)	Dynamic	GE24	Add to Static MAC table
00:14:D7:05:05:29	default(1)	Dynamic	GE24	Add to Static MAC table
00:15:0F:00:40:CF	default(1)	Dynamic	GE24	Add to Static MAC table
00:16:D3:C4:FC:55	default(1)	Dynamic	GE1	Add to Static MAC table
00:16:D4:3D:FF:45	default(1)	Dynamic	GE9	Add to Static MAC table
00:18:F3:F7:45:D1	default(1)	Dynamic	GE10	Add to Static MAC table

5. Security

Storm Control

Global Setting

Storm Control Global

Storm Control Global Setting

Unit	<input type="radio"/> pps <input checked="" type="radio"/> bps
Preamble & IFG	<input checked="" type="radio"/> Excluded <input type="radio"/> Included

Apply

▼ Storm Control Global Information

Information Name	Information Value
Unit	bps
Preamble & IFG	Excluded

Port Setting

Storm Control

Storm Control Setting

Port	Port State	Action	Type Enable	Rate (Kbps)
Select Ports	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	drop ▾	<input type="checkbox"/> Broadcast	10000
			<input type="checkbox"/> Unknown Multicast	10000
			<input type="checkbox"/> Unknown Unicast	10000

Apply

▼ Storm Control Information

Port	Port State	Broadcast (Kbps)	Unknown Multicast (Kbps)	Unknown Unicast (Kbps)	Action
GE1	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE2	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE3	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE4	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE5	disabled	Off (10000)	Off (10000)	Off (10000)	Drop

802.1X**802.1X Setting****802.1x Setting**

802.1X	<input checked="" type="radio"/> Disable	<input type="radio"/> Enable
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Apply**▼ 802.1x Informations**

Information Name	Information Value
802.1X	Disabled

802.1X Port Setting**802.1x Port Setting**

Port	Select Ports
-------------	---------------------

Mode	No Authentication
-------------	-------------------

Reauthentication Enable	<input checked="" type="radio"/> Disable	<input type="radio"/> Enable
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Reauthentication Period	3600	(Range 30 - 65535, Default: 3600)
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Quiet Period	60	(Range 0 - 65535, Default: 60)
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Supplicant Period	30	(Range 1 - 65535, Default: 30)
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Maximum Request Retries	2	(Range 1 - 10, Default: 2)
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Apply**▼ 802.1x Port Status**

Port	Mode	Status	Periodic Reauthenticat.	Reauthentication Period	Quiet Period	Supplicant Timeout	Max. EAP	Modify
------	------	--------	-------------------------	-------------------------	--------------	--------------------	----------	--------

Guest VLAN Setting**Dot1x Guest VLAN****Guest VLAN Setting**

Guest VLAN ID	<input type="text" value="0"/>	<input type="checkbox"/> Enable
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Guest VLAN port Setting

Port Select	Guest VLAN
Select Ports	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Apply**Guest VLAN Status**

Port Name	Enable State	In Guest VLAN
GE1	Disabled	NO
GE2	Disabled	NO
GE3	Disabled	NO
GE4	Disabled	NO
GE5	Disabled	NO

Authenticated Hosts**Authenticated Hosts****Authenticated Host Table**

User Name	Port	Session Time	Authentication Method	MAC Address

DAI**Global Setting****DAI Setting**

DAI	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
-----	---

Apply**DAI Informations**

Information Name	Information Value
DAI	Disabled

VLAN Setting**DAI VLAN Setting****DAI VLAN Setting**

VLAN LIST	Status
	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Apply**DAI VLAN Setting**

VLAN List	Status
No VLANs	enabled

Port Setting**DAI Port Setting****DAI Port Setting**

Port	Type	Src-Mac Chk	Dst-Mac Chk	IP Chk	IP Allow Zero
Select Ports	<input checked="" type="radio"/> Un Trusted <input type="radio"/> Trusted	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled			

Apply**DAI Port Setting**

Port	Type	Src-Mac Chk	Dst-Mac Chk	IP Chk	IP Allow Zero
GE1	Un Trusted	disabled	disabled	disabled	disabled
GE2	Un Trusted	disabled	disabled	disabled	disabled
GE3	Un Trusted	disabled	disabled	disabled	disabled
GE4	Un Trusted	disabled	disabled	disabled	disabled
GE5	Un Trusted	disabled	disabled	disabled	disabled
GE6	Un Trusted	disabled	disabled	disabled	disabled

Statistics**Dynamic ARP Inspection Statistics****Dynamic ARP Inspection Statistics****Clear** **Refresh**

Port	Forwarded	Source MAC Failures	Dest MAC Failures	SIP Validation Failures	DIP Validation Failures	IP-MAC Mismatch Failures
GE1	0	0	0	0	0	0
GE2	0	0	0	0	0	0
GE3	0	0	0	0	0	0
GE4	0	0	0	0	0	0
GE5	0	0	0	0	0	0
GE6	0	0	0	0	0	0
GE7	0	0	0	0	0	0
GE8	0	0	0	0	0	0
GE9	0	0	0	0	0	0
GE10	0	0	0	0	0	0

Rate Limit**ARP Rate Limit****ARP Rate Limit Setting**

Port	State	Rate Limit (pps)
Select Ports	<input checked="" type="radio"/> Default <input type="radio"/> User-Define	Unlimited (up to 50 pps)

Apply**ARP Rate Limit Config**

Port Name	Rate Limit (pps)
GE1	unlimited
GE2	unlimited
GE3	unlimited
GE4	unlimited
GE5	unlimited
GE6	unlimited
GE7	unlimited

DHCP Snooping

Global Setting

DHCP Snooping Setting

DHCP Snooping Setting

DHCP Snooping	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
---------------	---

Apply

▼ DHCP Snooping Informations

Information Name	Information Value
DHCP Snooping	disabled

VLAN Setting

DHCP Snooping VLAN Setting

DHCP Snooping VLAN Setting

VLAN LIST	Status
	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Apply

▼ DHCP Snooping VLAN Setting

VLAN List	Status
No VLANs	enabled

Port Setting

DHCP Snooping Port Setting

Port	Type	Chaddr Check
Select Ports	<input checked="" type="radio"/> Un Trusted <input type="radio"/> Trusted	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

Apply

▼ DHCP Snooping Port Setting

Port	Type	Chaddr Check
GE1	Un Trusted	disabled
GE2	Un Trusted	disabled
GE3	Un Trusted	disabled
GE4	Un Trusted	disabled
GE5	Un Trusted	disabled
GE6	Un Trusted	disabled

Statistics

DHCP Snooping Statistics

▼ DHCP Snooping Statistics

Clear **Refresh**

Port	Forwarded	Chaddr Check Dropped	Untrust Port Dropped	Untrust Port With Option82 Dropped	Invalid Dropped
GE1	0	0	0	0	0
GE2	0	0	0	0	0
GE3	0	0	0	0	0
GE4	0	0	0	0	0
GE5	0	0	0	0	0
GE6	0	0	0	0	0
GE7	0	0	0	0	0
GE8	0	0	0	0	0
GE9	0	0	0	0	0
GE10	0	0	0	0	0
GE11	0	0	0	0	0

Database Agent

DHCP Snooping Database

DHCP Snooping Database

Database Type	<input type="text" value="None"/>
FileName	<input type="text"/>
Remote Server	<input type="text"/> (X.X.X.X or Hostname)
Write Delay	<input type="text" value="300"/> (15 ~ 86400 Sceond)
Timeout	<input type="text" value="300"/> (0 ~ 86400 Second)

▼ DHCP Snooping Database Informations

Information Name	Information Value
Type	None
FileName	
Server	
Write Delay	300

Rate Limit

DHCP Rate Limit

DHCP Rate Limit Setting

Port	State	Rate Limit (pps)
<input type="button" value="Select Ports"/>	<input checked="" type="radio"/> Default <input type="radio"/> User-Define	<input type="text" value="Unlimited"/> (1~50 pps)

▼ DHCP Rate Limit Config

Port Name	Rate Limit (pps)
GE1	Unlimited
GE2	Unlimited
GE3	Unlimited
GE4	Unlimited
GE5	Unlimited
GE6	Unlimited
GE7	Unlimited

Option82 Global Setting

DHCP Option82 Global Setting

Option82 Global Setting

Remote ID	<input type="radio"/> Default <input checked="" type="radio"/> User-Define <input type="text"/>
-----------	---

Apply

▼ Option82 Global Setting

Information Name	Information Value
Option82 Remote ID	0:13:4b:11:4c:37 (Byte Format)

Option82 Port Setting

Option82 Port Setting

Option82 Port Setting

Port	Enable	Allow UnTrusted
Select Ports	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	Keep

Apply

▼ Option82 Port Setting

Port	Enable	Allow UnTrusted
GE1	disabled	Drop
GE2	disabled	Drop
GE3	disabled	Drop
GE4	disabled	Drop
GE5	disabled	Drop
GE6	disabled	Drop

Option82 Circuit-id Setting

Option82 Port Circuit-ID Setting

Option82 Port Circuit-ID Setting

Port	Vlan	Circuit ID
Select Ports <input type="button" value="▼"/>	<input checked="" type="checkbox"/> 1 <input type="radio"/> Default <input type="radio"/> User-Define <input type="text"/>	

▼ Option82 Port Setting

Port	VLAN	Circuit ID

Port Security

Port Security

Port Security Settings

Port Select	Security	Max L2 Entry	Action
Select Ports <input type="button" value="▼"/>	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled <input type="text"/> Unlimited	<input style="width: 100px; height: 25px;" type="button" value="Forward"/>	

▼ Port Security Status

Port Name	Enable State	L2 Entry Num	Action
GE1	Disabled	8192	Forward
GE2	Disabled	8192	Forward
GE3	Disabled	8192	Forward
GE4	Disabled	8192	Forward
GE5	Disabled	8192	Forward
GE6	Disabled	8192	Forward
GE7	Disabled	8192	Forward

Protected Ports

Protected Ports

Protected Ports Settings

Port List	Port Type
Select Protected Port	<input checked="" type="radio"/> Unprotected <input type="radio"/> Protected

Apply

Protected Ports Status

Protected Type	Port List
Protected Ports	
Unprotected Ports	all

DoS**DoS Global Setting****DoS Global Setting****Global DoS Setting**

DMAC = SMAC	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Land	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
UDP Blat	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
TCP Blat	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
POD	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
IPv6 Min Fragment	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled Byte: <input type="text" value="1240"/>
ICMP Fragments	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
IPv4 Ping Max Size	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
IPv6 Ping Max Size	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Ping Max Size Setting	Byte: <input type="text" value="512"/>
Smurf Attack	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled Netmask Length: <input type="text" value="0"/>
TCP Min Hdr Size	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled Bytes: <input type="text" value="20"/>
TCP-SYN(SPORT<1024)	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Null Scan Attack	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
X-Mas Scan Attack	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
TCP SYN-FIN Attack	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
TCP SYN-RST Attack	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
TCP Fragment (Offset = 1)	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

DoS Port Setting**DoS Port Setting****STP Port Setting****Port Select****DoS Protection**

Select Ports

 Enabled Disabled
Apply**▼ DoS Port Status**

Port	DoS Protection
GE1	Disable
GE2	Disable
GE3	Disable
GE4	Disable
GE5	Disable
GE6	Disable
GE7	Disable

AAA**Login List****Login Authentication List****New Authentication List**

List Name	Method 1	Method 2	Method 3	Method 4
	Empty	Empty	Empty	Empty

Add**▼ Login Authentication Lists**

List Name	Method List	Modify
default	local	Edit

Enable List**Enable Authentication List****New Authentication List**

List Name	Method 1	Method 2	Method 3
	Empty	Empty	Empty

Add**▼ Enable Authentication Lists**

List Name	Method List	Modify
default	enable	Edit

TACACS+ Server**Tacacs+ server settings****Use Default Parameters**

IP Version	Version 6 Version 4
Key String	(0/128 ASCII Alphanumeric Characters Used)
Timeout for Reply	5 sec. (Range 1 - 30, Default: 5)

Apply**New Tacacs+ Server**

Server Definition	<input checked="" type="radio"/> By IP address <input type="radio"/> By name
Server IP	
Server Port	49 (0 - 65535)
Server Key	<input checked="" type="checkbox"/> Use Default
Server Timeout	<input checked="" type="checkbox"/> Use Default (1-30) secs
Server Priority	1 (0 - 65535)

Radius Server**Radius server settings****Use Default Parameters**

IP Version	Version 6 Version 4
Retries	3 (Range 1 - 10, Default: 3)
Timeout for Reply	3 sec. (Range 1 - 30, Default: 3)
Dead Time	0 min. (Range 0 - 2000, Default: 0)
Key String	(0/128 ASCII Alphanumeric Characters Used)

Apply**New Radius Server**

Server Definition	<input checked="" type="radio"/> By IP address <input type="radio"/> By name
Server IP	<input type="text"/>
Authentication Port	1812 (0 - 65535)
Acct Port	1813 (0 - 65535)
Key String	<input checked="" type="checkbox"/> Use Default <input type="text"/>
Timeout for Reply	<input checked="" type="checkbox"/> Use Default <input type="text"/> (1-30) secs
Retries	<input checked="" type="checkbox"/> Use Default <input type="text"/> (1 - 10)
Server Priority	1 (0 - 65535)
Dead Time	0 (0 - 2000)
Usage Type	<input type="radio"/> Login <input type="radio"/> 802.1X <input checked="" type="radio"/> All

Access**Console****Console Settings****Console Settings**

Login Authentication List	<input type="text" value="default"/>
Enable Authentication List	<input type="text" value="default"/>
Session Timeout	<input type="text" value="10"/> (0-65535) minutes
Password Retry Count	<input type="text" value="3"/> (0-120)
Silent Time	<input type="text" value="0"/> (0-65535) seconds

Apply**Console Information**

Information Name	Information Value
Login Authentication List	default
Enable Authentication List	default
Session Timeout	10
Password Retry Count	3
Silent Time	0

Telnet**Telnet Settings****Telnet Settings**

Telnet Service	<input type="text" value="Enabled"/>
Login Authentication List	<input type="text" value="default"/>
Enable Authentication List	<input type="text" value="default"/>
Session Timeout	<input type="text" value="10"/> (0-65535) minutes
Password Retry Count	<input type="text" value="3"/> (0-120)
Silent Time	<input type="text" value="0"/> (0-65535) seconds

Apply**Disconnect****Telnet Information**

Information Name	Information Value
Telnet Service	Enabled
Login Authentication List	default
Enable Authentication List	default
Session Timeout	10
Password Retry Count	3
Silent Time	0
Current Telnet Sessions Count	0

telnet ipDefault Username : **admin**

Default Password : **admin**

Command help is type character ?

Switch#?

clear	Clear configuration
clock	Manage the system clock
configure	Configuration Mode
copy	Copy from one file to another
debug	Debug Options
delete	Delete a file from the flash file system
disable	Turn off privileged mode command
end	End current mode and change to enable mode
exit	Exit current mode and down to previous mode
no	Negate command
ping	Send ICMP ECHO_REQUEST to network hosts
reboot	Halt and perform a cold restart
renew	RenewIP configuration
restore-defaults	Restore to default
save	Save running configuration to flash
show	Show running system information
ssl	Setup SSL host keys
traceroute	Trace route to network hosts

Switch#show ?

aaa	AAA (Authentication, Authorization, Accounting)
acl	Display not empty access control lists (ACLs) configured on the switch
arp	Show the IP ARP translation table
backup-config	Backup configuration
cable-diag	Cable Diagnostics
clock	Display the time and date from the system clock
custom	Custom Module configuration
debugging	debugging information
dos	DoS information
dot1x	802.1x configuration
errdisable	Error Disable
flash	Flash Operations
gvrp	GVRP configuration
history	list the last several history commands
info	Basic information

interfaces	Interface status and configuration
ip	Global IP configuration commands
ipv6	IPV6 configuration
lacp	LACP Configuration
lag	Link Aggregation Group Configuration
line	To identify a specific line for configuration
lldp	LLDP global configuration
logging	Log Configuration
mac	MAC configuration
management	Specify management restrictions configuration
management-vlan	Management VLAN configuration
mirror	Mirror configuration
port-security	Port security
privilege	Local user privilege level
qos	Enable/Disable QoS on the device and enter the QoS mode (advance/basic).
radius	RADIUS server information
rmon	RMON information
running-config	Running configuration
snmp	SNMP information
sntp	Simple Network Time Protocol (SNTP) information
spanning-tree	Displays spanning-tree information
startup-config	Startup configuration
storm-control	Storm control configuration
tacacs	TACACS+ server information
username	Local User
users	Display information about users
version	System hardware and software status
vlan	VLAN configuration
voice-vlan	Voice VLAN configuration

Example

```
show clock
show arp
show mac ?
show mac address-table
```

SSH

SSH Settings

SSH Service	Disabled
Login Authentication List	default
Enable Authentication List	default
Session Timeout	10 (0-65535) minutes
Password Retry Count	3 (0-120) minutes
Silent Time	0 (0-65535) seconds

Apply **Disconnect**

SSH Information

Information Name	Information Value
SSH Service	Disabled
Login Authentication List	default
Enable Authentication List	default
Session Timeout	10
Password Retry Count	3
Silent Time	0
Current SSH Sessions Count	0

HTTP

HTTP Settings

HTTP Service	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Login Authentication List	default
Session Timeout	10 (0-86400) minutes

Apply

HTTP Information

Information Name	Information Value
HTTP Service	Enabled
Login Authentication List	default
Session Timeout	10

HTTPS**HTTPS Settings****HTTPS Settings**

HTTPS Service	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Login Authentication List	default
Session Timeout	10 (0-86400) minutes

Apply**▼ HTTPS Information**

Information Name	Information Value
HTTPS Service	Disabled
Login Authentication List	default
Session Timeout	10

Mgmt Access Method**Access Profiles****Access Profiles**Access Profile: Active Deactive**Apply****▼ Access Profiles Table**

Access Profile Name	Delete
default	Delete

Profile Rules

Profile Rules

Profile Rule Table Setting

Access Profile Name(1-32 charaters)	Priority(1-65535)	Management Method	Action	Port	IP-Source
<input type="text"/>	1	All	Permit	Select Ports	<input checked="" type="radio"/> All <input type="radio"/> IPv4/Mask 0.0.0.0 0.0.0.0 <input type="radio"/> IPv6/Prefix 0:0:0:0 128

Apply

Profile Rule Table

Access Profile Name	Priority	Management Method	Action	Port	Source IPV4	Source IPV4 Mask	Source IPV6	Source IPV6 Prefix	Modify
default	1	All	Permit	gi1-24,lag1-8					Edit Delete

6. ACL

IPv4-Based ACL

IPv4-Based ACL

ACL Name	
----------	--

Add

ACL Table

ACL Name	Delete
----------	--------

IPv4-Based ACE

IPv4-Based ACE	
ACL Name	<input type="text"/>
Sequence	<input type="text"/> (Range: 1 - 2147483647, 1 is first processed)
Action	<input checked="" type="radio"/> Permit <input type="radio"/> Deny <input type="radio"/> Shutdown
Protocol	<input checked="" type="radio"/> Any(IP) <input type="radio"/> Select from list <input type="text" value="icmp"/> <input type="radio"/> Protocol ID to match <input type="text" value="1"/>
Source IP Address	<input checked="" type="radio"/> Any <input type="radio"/> User Defined
Source IP Address Value	<input type="text"/>
Source IP Wildcard Mask	<input type="text"/> (0s for matching, 1s for no matching)
Destination IP Address	<input checked="" type="radio"/> Any <input type="radio"/> User Defined
Destination IP Address Value	<input type="text"/>
Destination IP Wildcard Mask	<input type="text"/> (0s for matching, 1s for no matching)
Source Port	<input checked="" type="radio"/> Any <input type="radio"/> Single <input type="text" value="0"/> (Range: 0 - 65535) <input type="radio"/> Range <input type="text" value="0"/> - <input type="text" value="65535"/> (Range: 0 - 65535)
Destination Port	<input checked="" type="radio"/> Any <input type="radio"/> Single(Range: 0 - 65535) <input type="text" value="0"/> (Range: 0 - 65535) <input type="radio"/> Range(Range: 0 - 65535) <input type="text" value="0"/> - <input type="text" value="65535"/> (Range: 0 - 65535)
TCP Flags	Urg <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Ack <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Psh <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Rst <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Syn <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Fin <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care
Type of Service	<input checked="" type="radio"/> Any <input type="radio"/> DSCP to match <input type="text" value="0"/> (Range: 0 - 63) <input type="radio"/> IP Precedence to match <input type="text" value="0"/> (Range: 0 - 7)
ICMP	<input checked="" type="radio"/> Any <input type="radio"/> Select from list <input type="text" value="Echo Rep"/> <input type="radio"/> Protocol ID to match <input type="text" value="0"/> (Range: 0 - 255)
ICMP Code	<input checked="" type="radio"/> Any <input type="radio"/> User Defined <input type="text" value="0"/> (Range: 0 - 255)

IPv6-Based ACL

IPv6-Based ACL

ACL Name	<input type="text"/>
----------	----------------------

Add

▼ ACL Table

ACL Name	Delete
----------	--------

IPv6-Based ACE

IPv6-Based ACE	
ACL Name	<input type="text"/>
Sequence	<input type="text"/> (Range: 1 - 2147483647, 1 is first processed)
Action	<input checked="" type="radio"/> Permit <input type="radio"/> Deny <input type="radio"/> Shutdown
Protocol	<input checked="" type="radio"/> Any(IP) <input type="radio"/> Select from list <input type="text" value="tcp"/> ▾ <input type="radio"/> Protocol ID to match <input type="text" value="1"/>
Source IP Address	<input checked="" type="radio"/> Any <input type="radio"/> User Defined
Source IP Address Value	<input type="text"/>
Source IP Prefix Length	<input type="text"/> 0 (Range: 0 - 128)
Destination IP Address	<input checked="" type="radio"/> Any <input type="radio"/> User Defined
Destination IP Address Value	<input type="text"/>
Destination IP Prefix Length	<input type="text"/> 0 (0s for matching, 1s for no matching)
Source Port	<input checked="" type="radio"/> Any <input type="radio"/> Single <input type="text" value="0"/> (Range: 0 - 65535) <input type="radio"/> Range <input type="text" value="0"/> - <input type="text" value="65535"/> (Range: 0 - 65535)
Destination Port	<input checked="" type="radio"/> Any <input type="radio"/> Single(Range: 0 - 65535) <input type="text" value="0"/> (Range: 0 - 65535) <input type="radio"/> Range(Range: 0 - 65535) <input type="text" value="0"/> - <input type="text" value="65535"/> (Range: 0 - 65535)
TCP Flags	Urg <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Ack <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Psh <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Rst <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Syn <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care Fin <input checked="" type="radio"/> Set <input type="radio"/> Unset <input type="radio"/> Don't Care
Type of Service	<input checked="" type="radio"/> Any <input type="radio"/> DSCP to match <input type="text" value="0"/> (Range: 0 - 63) <input type="radio"/> IP Precedence to match <input type="text" value="0"/> (Range: 0 - 7)
ICMP	<input checked="" type="radio"/> Any <input type="radio"/> Select from list <input type="text" value="destinatic"/> ▾ <input type="radio"/> Protocol ID to match <input type="text" value="0"/> (Range: 0 - 255)
ICMP Code	<input checked="" type="radio"/> Any <input type="radio"/> User Defined <input type="text" value="0"/> (Range: 0 - 255)

ACL Binding

ACL Binding

Binding Port	ACL Select
Select Ports	<input type="checkbox"/> MAC-Based ACL <input type="button" value="▼"/> <input type="checkbox"/> IPv4-Based ACL <input type="button" value="▼"/> <input type="checkbox"/> IPv6-Based ACL <input type="button" value="▼"/>

Apply

ACL Binding Table

Port	MAC ACL	IPv4 ACL	IPv6 ACL	Modify

7. QoS

General

QoS Properties

QoS Global Setting

QoS Mode	<input checked="" type="radio"/> Disable <input type="radio"/> Basic

Apply

QoS Informations

Information Name	Information Value
QoS Mode	disable

Port Settings

QoS Port Settings

Port Port Settings

Port	CoS Value	Remark CoS	Remark DSCP	Remark IP Precedence
Select Ports	0	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

[Apply](#)

▼ QoS Port Status

Port	CoS value	Remark CoS	Remark DSCP	Remark IP Precedence
GE1	0	disabled	disabled	disabled
GE2	0	disabled	disabled	disabled
GE3	0	disabled	disabled	disabled
GE4	0	disabled	disabled	disabled
GE5	0	disabled	disabled	disabled
GE6	0	disabled	disabled	disabled
GE7	0	disabled	disabled	disabled
GE8	0	disabled	disabled	disabled

Queue Settings

Queue Setting

Queue Table

Queue	Scheduling Method			
	Strict Priority	WRR	Weight	% of WRR Bandwidth
1	<input checked="" type="radio"/>	<input type="radio"/>	1	
2	<input checked="" type="radio"/>	<input type="radio"/>	2	
3	<input checked="" type="radio"/>	<input type="radio"/>	3	
4	<input checked="" type="radio"/>	<input type="radio"/>	4	
5	<input checked="" type="radio"/>	<input type="radio"/>	5	
6	<input checked="" type="radio"/>	<input type="radio"/>	9	
7	<input checked="" type="radio"/>	<input type="radio"/>	13	
8	<input checked="" type="radio"/>	<input type="radio"/>	15	

[Apply](#)

▼ Queue Information

CoS Mapping**CoS Mapping****CoS to Queue Mapping**

Class of Service	0	1	2	3	4	5	6	7
Queue	2	1	3	4	5	6	7	8

Queue to CoS Mapping

Queue	1	2	3	4	5	6	7	8
Class of Service	1	0	2	3	4	5	6	7

Apply**▼ CoS mapping**

CoS	Mapping to Queue
0	2
1	1
2	3

DSCP Mapping**DSCP Mapping****DSCP to Queue Mapping**

DSCP	Queue
Select DSCP	1

Queue to DSCP Mapping

Queue	1	2	3	4	5	6	7	8
DSCP	0	8	16	24	32	40	48	56

Apply**▼ DSCP mapping**

DSCP	Mapping to Queue
0	1
1	1
2	1
3	1

IP Precedence Mapping**IP Precedence Mapping****IP Precedence to Queue Mapping**

IP Precedence	0	1	2	3	4	5	6	7
Queue	1	2	3	4	5	6	7	8

Queue to IP Precedence Mapping

Queue	1	2	3	4	5	6	7	8
IP Precedence	0	1	2	3	4	5	6	7

Apply**▼ IP Precedence mapping**

IP Precedence	Mapping to Queue
0	1
1	2
2	3

QoS Basic Mode**Global Settings****Global Settings****Basic Mode Global Settings**

Trust Mode	<input checked="" type="radio"/> CoS/802.1p	<input type="radio"/> DSCP	<input type="radio"/> CoS/802.1p-DSCP	<input type="radio"/> IP Precedence	<input type="radio"/> None
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Apply**▼ QoS Informations**

Information Name	Information Value
Trust Mode	cos

Port Settings

QoS Port Setting

QoS Port Setting

Port	Trust
Select Ports	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled

Apply

QoS Port Status

Port	Trust Type
GE1	enabled
GE2	enabled
GE3	enabled
GE4	enabled
GE5	enabled
GE6	enabled
GE7	enabled

Rate Limit

Ingress Bandwidth Control

Ingress Bandwidth Control

Ingress Bandwidth Control Settings

Port	State	Rate(Kbps)
Select Ports	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	(0-1000000, must a multiple of 16)

Apply

Ingress Bandwidth Control Status

Port	Ingress RateLimit (Kbps)
GE1	off
GE2	off
GE3	off
GE4	off
GE5	off
GE6	off
GE7	off

0-1000000, must a multiple of 16

Gress Bandwidth Control**Egress Bandwidth Control****Egress Bandwidth Control Settings**

Port	State	Rate(Kbps)
Select Ports	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	<input type="text"/> (0-1000000, must a multiple of 16)

Apply**▼ Egress Bandwidth Control Status**

Port	Egress RateLimit (Kbps)
GE1	off
GE2	off
GE3	off
GE4	off
GE5	off
GE6	off
GE7	off

0-1000000, must a multiple of 16

Egress Queue**Egress Queue Bandwidth Control****Egress Queue Bandwidth Control Settings**

Port	Queue	State	CIR(Kbps)
GE1	1	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	<input type="text"/> (0-1000000, must a multiple of 16)

Apply**▼ GE1 Egress Per Queue Status**

Queue Id	Rate Limit (Kbps)
1	off
2	off
3	off
4	off
5	off

0-1000000, must a multiple of 16

8. Management

LLDP**LLDP Global Setting****LLDP Global Setting****Global Settings**

Enabled	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
LLDP PDU Disable Action	<input type="radio"/> Filtering <input type="radio"/> Bridging <input checked="" type="radio"/> Flooding
Transmission Interval	30 (5-32768)
Holdtime Multiplier	4 (2-10)
Reinitialization Delay	2 (1-10)
Transmit Delay	2 (1-8192)
LLDP-MED Fast Start Repeat Count	3 (1-10)

Apply**▼ LLDP Global Config**

Config Name	Config Value
LLDP Enabled	Enabled
LLDP PDU Disable Action	Flooding
Transmission Interval	30 Secs
Holdtime Multiplier	4
Reinitialization Delay	2 Secs
Transmit Delay	2 Secs
LLDP-MED Fast Start Repeat Count	3 PDUs

LLDP Port Setting**LLDP Port Setting****LLDP Port Configuration**

Port Select	State
Select Ports	Disable

Apply**Optional TLVs Selection**

Port Select	Optional TLV Select
Select Ports	Select Optional TLVs

Apply**▼ LLDP Port Status**

Port	State	Selected Optional TLVs
GE1	TX & RX	802.1 PVID
GE2	TX & RX	802.1 PVID

LLDP Local Device

LLDP Local Device

▼ Local Device Summary

Chassis ID Subtype	MAC Address
Chassis ID	00:13:4B:11:4C:37
System Name	Switch
System Description	
Capabilities Supported	Bridge
Capabilities Enabled	Bridge
Port ID Subtype	Interface name

▼ Port Status

Detail

	Interface	LLDP Status	LLDP Med Status
●	GE1	TX & RX	Enabled
●	GE2	TX & RX	Enabled
●	GE3	TX & RX	Enabled
●	GE4	TX & RX	Enabled
●	GE5	TX & RX	Enabled
●	GE6	TX & RX	Enabled
●	GE7	TX & RX	Enabled
●	GE8	TX & RX	Enabled

LLDP Remote Device

LLDP Remote Device

▼ LLDP Remote Device

Detail **Delete** **Refresh**

Sel	Local Port	Chassis ID Subtype	Chassis ID	Port ID Subtype	Port ID	System Name	Time to Live
-----	------------	--------------------	------------	-----------------	---------	-------------	--------------

MED Network Policy

LLDP MED Network Policy Setting

Voice Auto Mode Configuration

LLDP MED Policy for Voice Application

 Auto Manual
Apply

Network Policy Configuration

Network Policy Number	1
Application	Voice
VLAN ID	1 (1-4094)
VLAN Tag	<input checked="" type="radio"/> Tagged <input type="radio"/> Untagged
L2 Priority	0 (0-7)
DSCP Value	0 (0-63)

Apply

▼ LLDP MED Network Policy Table

Delete

Network Policy Number	Application	VLAN ID	VLAN Tag	L2 Priority	DSCP Value
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MED Port Setting

LLDP Port MED Setting

Port LLDP MED Configuration

Port Select	MED Enable	MED Optional TLVs	MED Network Policy
Select Ports	Enable	Select Optional TLVs	Select Optional TLVs

Apply

▶ LLDP MED Port Setting Table

MED Location Configuration

Ports	Select Ports
Location Coordinate	(16 pairs of hexadecimal characters)
Location Civic Address	(6-160 pairs of hexadecimal characters)
Location ECS ELIN	(10-25 pairs of hexadecimal characters)

Apply

▼ LLDP MED Port Location Table

Port	Coordinate	Civic Address	ECS ELIN
GE1			
GE2			
GE3			

LLDP Overloading

LLDP Port Overloading

▼ LLDP Port Overloading Table

Interface	Total(Bytes)	Left to Send(Bytes)	Status	Status			
				Mandatory TLVs	MED Capabilities	MED Location	MED Network Policy
GE1	48	1440	Not Overloading	21(Transmitted)	9(Transmitted)		10(Transmitt
GE2	48	1440	Not Overloading	21(Transmitted)	9(Transmitted)		10(Transmitt
GE3	48	1440	Not Overloading	21(Transmitted)	9(Transmitted)		10(Transmitt
GE4	48	1440	Not Overloading	21(Transmitted)	9(Transmitted)		10(Transmitt
GE5	48	1440	Not Overloading	21(Transmitted)	9(Transmitted)		10(Transmitt
GE6	48	1440	Not Overloading	21(Transmitted)	9(Transmitted)		10(Transmitt

SNMP

SNMP Setting

SNMP Setting

SNMP Global Setting

State

Disabled Enabled

Apply

▼ SNMP Informations

Information Name	Information Value
SNMP	Enabled

SNMP Setting support UBLINK.org Switch Viewer

SNMP View

SNMP View

View Table Setting

View Name	Subtree OID	Subtree OID Mask	View Type
		all	<input checked="" type="radio"/> included <input type="radio"/> excluded

[Add](#)

View Table Status

View Name	Subtree OID	OID Mask	View Type	Action

SNMP Access Group

SNMP Access Group

Access Group Setting

Group Name	Security Model	Security Level	Read View Name	Write View Name	Notify View Name
	v1	noauth		None	None

[Add](#)

Access Group Status

Group Name	Security Model	Security Level	Read View Name	Write View Name	Notify View Name	Action

SNMP Community

SNMP Community

Community Setting

Community Name	Community Mode	Group Name	View Name	Access Right
	Basic			ro

[Add](#)

Community Status

Community Name	Group Name	View Name	Access Right	Action
public		all	rw	Delete

SNMP User**SNMP User Table****User Setting**

User Name	Group	Privilege Mode	Authentication Protocol	Authentication Password	Encryption Protocol	Encryption Key
<input type="text"/>	<input type="button" value="▼"/>	noauth <input type="button" value="▼"/>	None <input type="button" value="▼"/>	<input type="text"/> (8 ~ 16 chars)	<input type="button" value="None"/> <input type="button" value="▼"/>	<input type="text"/> (8 ~ 16 chars)

Add**▼ User Status**

User Name	Group	Privilege Mode	Authentication Protocol	Encryption Protocol	Access Right	Action
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SNMPv1.2 Notification Recipients**Notification Recipients SNMPv1,2****SNMPv1,2 Host Setting**

Server Address	SNMP Version	Notify Type	Community Name	UDP Port	TimeOut	Retries
<input type="text"/>	v1 <input type="button" value="▼"/>	Traps <input type="button" value="▼"/>	public <input type="button" value="▼"/>	162 <input type="text"/> (1-65535)	15 <input type="text"/> (1-300)	3 <input type="text"/> (1-255)

Add**▼ SNMPV1,2 Host Status**

Server Address	SNMP Version	Notify Type	Community Name	UDP Port	TimeOut	Retry	Action
----------------	--------------	-------------	----------------	----------	---------	-------	--------

SNMPv3 Notification Recipients**Notification Recipients SNMPv3****SNMPv3 Host Setting**

Server Address	Notify Type	User Name	UDP Port	TimeOut	Retries
<input type="text"/>	Traps <input type="button" value="▼"/>	<input type="text"/> <input type="button" value="▼"/>	162 <input type="text"/> (1-65535)	15 <input type="text"/> (1-300)	3 <input type="text"/> (1-255)

Add**▼ SNMPv3 Host Status**

Server Address	Notify Type	User Name	UDP Port	Time Out	Retry	Action
----------------	-------------	-----------	----------	----------	-------	--------

SNMP Engine ID**Engine ID Setting****Engine ID Settings**

Use Default	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Engine ID	00134B114C37 (10-64)

Apply**Engine ID Status**

Information Name	Information Value
Use Default	Enabled
Engine ID	00134B114C37

SNMP Remote Engine ID**SNMP Remote Engine ID****Remote EngineID Setting**

Remote IP Address	Engine ID

Add**Remote Engine ID Status**

Remote IP Address	Remote Engine ID	Action

RMON**RMON Statistics**

RMON Statistics	
▼ Port GE1 RMON Statistics	
Port	GE1 ▾
	Clear
RMON Mib Name	Value
etherStatsDropEvents	0
etherStatsOctets	2456797467
etherStatsPkts	24551541
etherStatsBroadcastPkts	298990
etherStatsMulticastPkts	38236
etherStatsCRCAlignErrors	0
etherStatsUnderSizePkts	0
etherStatsOverSizePkts	0
etherStatsFragments	0
etherStatsJabbers	0
etherStatsCollisions	0
etherStatsPkts64Octets	4021940
etherStatsPkts65to127Octets	1892898
etherStatsPkts128to255Octets	8279559
etherStatsPkts256to511Octets	146506
etherStatsPkts512to1023Octets	1734353
etherStatsPkts1024to1518Octets	8476287

RMON Event

RMON Event Settings						
RMON Event						
Select Index	<input type="button" value="Create New ▾"/>					
Index	<input type="text" value="0"/> (1-65535)					
Type	<input type="button" value="None ▾"/>					
Community	<input type="button" value="public ▾"/>					
Owner	<input type="text"/> (0~31 Characters)					
Description	<input type="text"/> (0~127 Characters)					
Apply						
▼ Rmon Event						
Index	Event Type	Community	Description	Last Sent Time	Owner	Action

RMON Event Log

RMON Event Log Table

RMON Event Log Table		
Index	Log Time	Description

RMON Alarm

RMON Alarm Settings

RMON Alarm

Select Index	<input type="button" value="Create New"/>
Index	<input type="text" value="0"/> (1-65535)
Sample Port	<input type="button" value="GE1"/>
Sample Variable	<input type="button" value="DropEvents"/>
Sample Interval	<input type="text" value="0"/> (1-2147483647)
Sample Type	<input type="radio"/> absolute <input checked="" type="radio"/> delta
Rising Threshold	<input type="text" value="0"/> (0-2147483647)
Falling Threshold	<input type="text" value="0"/> (0-2147483647)
Rising Event	<input type="button" value="0: None (Unassigned)"/>
Falling Event	<input type="button" value="0: None (Unassigned)"/>
Owner	<input type="text"/> (0~31 Charactors)

RMON History

RMON History Settings

RMON History

Select Index	<input type="button" value="Create New"/>
Index	0 (1-65535)
Sample Port	GE1
Bucket Requested	50 (1-50, Default 50)
Interval	1800 (1-3600 Default 1800)
Owner	(0~31 Characters)

Rmon History

Index	Data Source	Bucket Requested	Interval	Owner	Action
-------	-------------	------------------	----------	-------	--------

RMON History Log

RMON History Table

RMON History Table

History Index

No data available!

9. Diagnostics

Cable Diagnostics

Copper Test

Copper Test

Select the port on which to run the copper test.

Port
GE1

Copper Test

Test Results

Port	Channel A	Cable Length A	Channel B	Cable Length B	Channel C	Cable Length C	Channel D	Cable Length D	Result
GE1	NORMAL		NORMAL		NORMAL		NORMAL		PASS

Ping Test**Ping Test****Ping test Setting**

IP Address	<input type="text" value="192.168.1.100"/> (x.x.x.x or hostname)
Count	<input type="text" value="4"/> (1 - 5 Default: 4)
Interval (in sec)	<input type="text" value="1"/> (1 - 5 Default: 1)
Size (in bytes)	<input type="text" value="56"/> (8 - 5120 Default: 56)
Ping Results	<div style="height: 200px; background-color: #f0f0f0;"></div>

IPv6 Ping Test**Ping Test****Ping test Setting**

IPv6 Address	<input type="text"/> (XX:XX::XX:XX)
Count	<input type="text" value="4"/> (1 - 5 Default: 4)
Interval (in sec)	<input type="text" value="1"/> (1 - 5 Default: 1)
Size (in bytes)	<input type="text" value="56"/> (8 - 5120 Default: 56)
Ping Results	<div style="height: 200px; background-color: #f0f0f0;"></div>

Trace Route

Trace Route

Trace Route Setting

IP Address	192.168.1.100 (x.x.x.x or hostname)
Max Hop	30 (2 - 255 Default : 30)
Trace Route Results	

Logging Setting**Logging Service**

Logging Settings

Logging Settings

Logging Service	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
------------------------	---

Apply

▼ Logging Information

Information Name	Information Value
Logging Service	enabled

Switch syslog

Local Logging

Local Logging

Local Logging Setting

Target	Severity
Select Targets	emerg

Local Logging Setting Status

Status	Target	Severity	Action
enabled	buffered	emerg, alert, crit, error, warning, notice	<input type="button" value="Delete"/>
enabled	console	emerg, alert, crit, error, warning, notice	<input type="button" value="Delete"/>

Select Targets

buffere

console

Severity

Emerg

alert

crit

error

warning

notice

info

debug

Remote Logging

Remote Logging

Remote Logging Setting

Server Address	Server Port	Severity	Facility
	514 (1-65535)	emerg	local0

Remote Logging Setting Status

Status	Server Info	Severity	Facility	Action

Remote Switch syslog

Severity

Emerg

alert

crit

error

warning

notice

info

debug

Facility : local0-local7

Factory Default

Factory Default

Restore

Factory Reset Setting to Default

Reboot Switch

Reboot Switch

Reboot

Only Reboot System

10. Maintenance

Backup Manager

Backup Manager

Backup Method	TFTP
Server IP	(IPv4 or IPv6 Address)
Backup Type	<input checked="" type="radio"/> Image <input type="radio"/> Running configuration <input type="radio"/> Startup configuration <input type="radio"/> Backup configuration <input type="radio"/> Flash log <input type="radio"/> Buffered log
Image	<input checked="" type="radio"/> (Active) <input type="radio"/> Partition1 (Backup)

Backup

Backup Method TFTP

Server IP (IPv4 or IPv6 Address)

File Name

Upgrade Type

- Image
 - Startup Configuration
 - Backup Configuration
 - Running Configuration
- Image** (Active)/Backup)

Backup Method HTTP**Backup Type**

- Image
 - Running configuration
 - Startup configuration
 - Backup configuration
 - Flash log
 - Buffered log
- Image** (Active) Partition1 (Backup)

Upgrade Manager**Upgrade Manager**

Upgrade Method	TFTP
Server IP	(IPv4 or IPv6 Address)
File Name	
Upgrade Type	<input checked="" type="radio"/> Image <input type="radio"/> Startup Configuration <input type="radio"/> Backup Configuration <input type="radio"/> Running Configuration
Image	<input type="radio"/> (Active) <input checked="" type="radio"/> (Backup)

Upgrade**Upgrade Method** TFTP**Server IP** (IPv4 or IPv6 Address)**File Name****Upgrade Type**

- Image
- Startup Configuration
- Backup Configuration
- Running Configuration

Image (Active)/Backup

Upgrade Method HTTP

Upgrade Type

- Image
- Startup Configuration
- Backup Configuration
- Running Configuration

Image (Active) (Backup)

Browse file

Dual Image

Dual Image

Dual Image Configuration

Active Image	<input checked="" type="radio"/> (Active) <input type="radio"/> Partition1 (Backup)
--------------	---

Apply

Images Information

	Active
Image Size	
Image Name	
Flash Partition	0
Created Time	

Partition1	Backup
(Empty Partition)	

Dual Image

Active Image can select Active/Backup

Configuration Manager

Configuration Manager

Save Configuration

Source File	<input checked="" type="radio"/> Running configuration <input type="radio"/> Startup configuration <input type="radio"/> Backup configuration
Destination File	<input checked="" type="radio"/> Startup configuration <input type="radio"/> Backup configuration

Apply

Source File

Running configuration

Startup configuration

Backup configuration

Destination File

Startup configuration

Backup configuration

Account Manager

Local User Information

New User

User Name	Password Type	Password	Retype Password	Privilege Type	Privilege Value
<input type="text"/>	Clear Text ▾	<input type="password"/>	<input type="password"/>	Admin ▾	2 ▾

Apply

Local Users

User Name	Password Type	Privilege Type	Privilege Value	Modify
admin	Encrypted	Admin	15	

Password Type : Clear Text/Encrypted/No Password**Privilege Type** : Admin/User/Other**11. UBLINK.org Switch Viewer**

Free Download

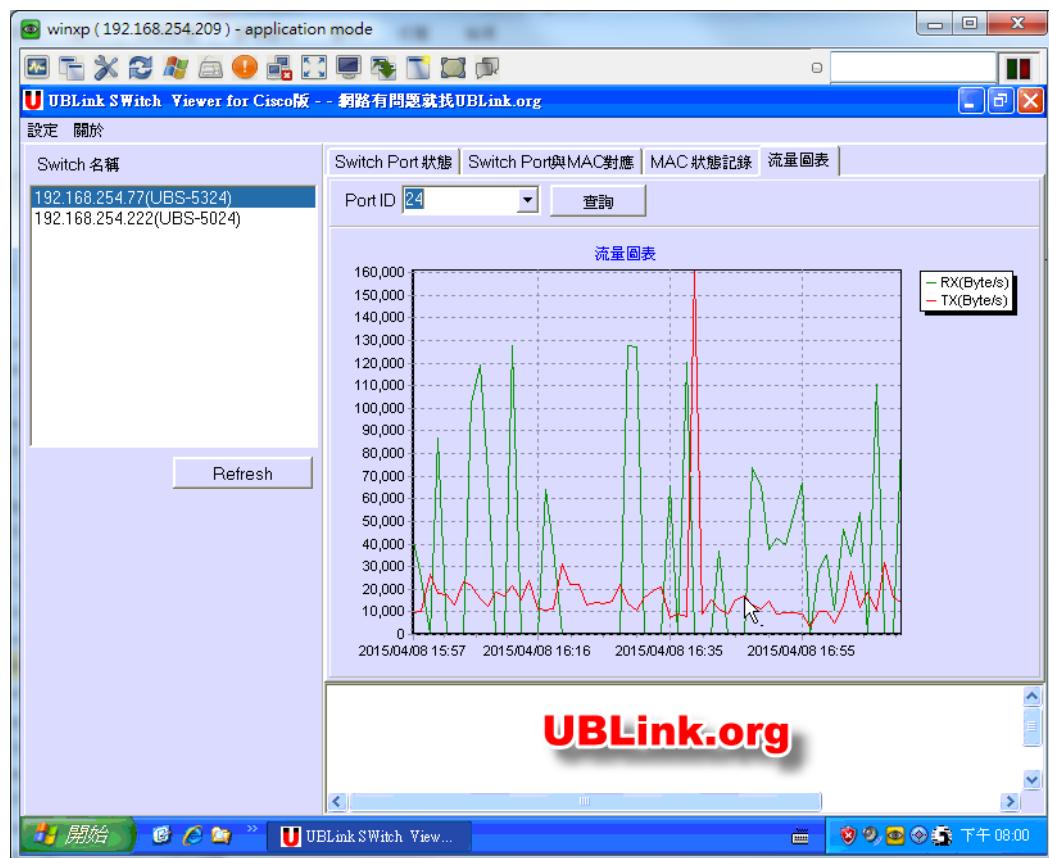
<http://www.ulink.org/index.php/files-download/file/717-switchviewpro.html>

Switch Port Status

The screenshot shows the UBLINK Switch Viewer application interface running on a Windows XP system. The main window title is "winxp (192.168.254.209) - application mode". The application title bar reads "UBLINK Switch Viewer for Cisco版 - 網路有問題就找UBLINK.org". The menu bar includes "設定" and "關於". The left sidebar shows "Switch 名稱" with two entries: "192.168.254.77(UBS-5324)" and "192.168.254.222(UBS-5024)". The main content area has tabs: "Switch Port 狀態" (selected), "Switch Port 與 MAC 對應", "MAC 狀態 記錄", and "流量圖表". A button "解除封鎖" is visible above the table. The table displays 15 ports (Port 1 to Port 15) with their corresponding IP, Port ID, Port Name, Speed, and Status. Ports 4, 5, 7, 11, 12, 14, and 15 are shown as DOWN. The bottom right corner of the application window features the "UBLINK.org" logo.

Switch IP	Port	Port ID	Port 名稱	速度	狀態
192.168.254.77	1	1	GigabitEthernet1	1000000000	UP
192.168.254.77	2	2	GigabitEthernet2	1000000000	UP
192.168.254.77	3	3	GigabitEthernet3	1000000000	UP
192.168.254.77	4	4	GigabitEthernet4	0	DOWN
192.168.254.77	5	5	GigabitEthernet5	0	DOWN
192.168.254.77	6	6	GigabitEthernet6	0	DOWN
192.168.254.77	7	7	GigabitEthernet7	0	DOWN
192.168.254.77	8	8	GigabitEthernet8	1000000000	UP
192.168.254.77	9	9	GigabitEthernet9	1000000000	UP
192.168.254.77	10	10	GigabitEthernet10	1000000000	UP
192.168.254.77	11	11	GigabitEthernet11	1000000000	UP
192.168.254.77	12	12	GigabitEthernet12	1000000000	UP
192.168.254.77	13	13	GigabitEthernet13	1000000000	UP
192.168.254.77	14	14	GigabitEthernet14	1000000000	UP
192.168.254.77	15	15	GigabitEthernet15	0	DOWN

MRTG Traffic



12. UBLINK.org Service Contact

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