

SWE-0216G3

User? & Manual

User's Manual Version : SWE-0216G3_Manual_V1

FCC Warning

This device has been tested and found to comply with limits for a Class-A digital device, pursuant to Part 2 and 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

CE Warning

This is a Class-A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

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0. Introduction

In this User Manual, it will not only tell you how to install and connect your network system but configure and monitor the SWE-0216G3 through the web by (RJ-45) serial interface and Ethernet ports step-by-step. Many explanations in detail of hardware and software functions are shown as well as the examples of the operation for web-based interface.

0.1. Package Contents

Before you start to install this switch, please verify your package that contains the following items:

- Giga Ethernet Switch
- Power cord
- Safety Warranty
- Rack-mount Kit

If any of these items is found missing or damaged, please contact your local supplier for replacement

0.2. Features

- All RJ-45 port support Power over Ethernet(up to 30.8W/port)
- Web Smart features provide better manageability, security, QoS, and performance
- 802.3az Energy Efficient Ethernet standard
- Dual speed SFPs for FE or Giga bit fiber uplink
- s-Flow supports
- Easy-Port-Configuration for ease of setup in the IP Phone, IP Camera or Wireless environment

Front Panel

Short Graphit Layer 2 Web Smart PoE Switch	1 8 8 7		
			
Image: state Image: state<	المرحله بعلم بعلم بعل	المرحلة وعلم والمراجع	

Reset Button		
click	Reboot and Restore default configuration	
Power		
aroon	The switch is receiving AC input power and is operating	
green	normally.	
off The switch is not receiving AC power		

PoE MAX		
red	Over the maximum PoE power, the switch can deliver.	
off	Not reach maximum PoE power total.	

RJ-45Port		
Link/Act		
green	GbE connection is available, Flashing mean busy.	
amber	FE or 10Mbps connection is available, Flashing mean busy.	
off	No connection is available.	
PoE		
green	PoE power is being supplied to the PD normally.	
amber	r Over the maximum PoE power, the switch can deliver.	
off	No PoE power is supplied.	

SFP Port		
Link/Act		
green	Gb connection is available, Flashing mean busy.	
amber 10/100 connection is available, Flashing mean busy.		
off No connection is available.		

Maximum PoE power, it can deliver is limited under 180W.It cat connect up to 5 IEEE802.3at Cat.4 PD devices or 12 IEEE802.3af Cat.0 PD devices.

1. Installation

This chapter instructs you how to configure and manage the SWE-0216G3 through the web user interface. With this facility, you can easily access and monitor through any one port of the switch all the status of the switch, including MIBs status, each port activity, Spanning tree status, port aggregation status, multicast traffic, VLAN and priority status, even illegal access record and so on.

1.1. Setup to switch

The switch performance is greatly affected where to install. When you install the switch, please consider the following points:

- Fairly cool and dry place.
- Free from noise(e.g. electromagnetic field generators, vibration, dust, heat, wet, or direct sunlight expositing)
- Make about 10cm space with rear side and top for heat spreading
- When you install switch to rack, free from another racking weight.
- When you install switch on a level surface, attach rubber feet to bottom of the switch. So rubber feet avoid case were scratched.

When you connect switch, please connect the switch to outlet first. Seconds connect PC with LAN cable.

1.2. User Log in

The default values of the SWE-0216G3is listed in the table below:

IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254
Username	admin
Password	admin

After the SWE-0216G3 has been finished physical install, you can browse it. For instance, type http://192.168.0.1 in the address row in a browser, it will show the following screen and ask you inputting username and password in order to login and access authentication.

The default username is "admin", and password is "admin". For the first time to use, please enter the default username and password, and then click the <Login> button. The login process now is completed. In this login menu, you

have to input the complete username and password respectively, the SWE-0216G3 will not give you a shortcut to username automatically. This looks inconvenient, but safer.

					<u> </u>
(←) → @ http://192.168.0.1/	P + → 🥖 Login	×			↑ ★ ☆
		Login			
		User			
		Password			
			LOGIN		
			LOOIN		

NOTE:

When you login the Switch WEB to manager. You must first type the Username of the admin. Password was blank, so when you type after the end Username, please press enter. Management page to enter WEB.

When you login SWE-0216G3 series switch Web UI management, you can use both ipv4 login to manage

To optimize the display effect, we recommend you use Microsoft IE 6.0 above, Netscape V7.1 above or FireFox V1.00 above and have the resolution 1024x768. The switch supported neutral web browser interface.

NOTE:

AS SWE-0216G3 the function enable DHCP, so If you do not have DHCP server to provide IP addresses to the switch, the Switch default IP 192.168.0.1





1.3. System Info

After you login, the switch shows you the system information. This page is default and tells you the basic information of the system; you will know the software version used, MAC address, IPv4/v6 info and so on. This is helpful while malfunctioning.

2. Web Management

In the first all settings were not saved before click "Save Setting to Flash" in the left side menu. If you setup any configuration before click "Save setting to Flash", all configuration were destroy when reset the switch or power lost.

2.1. System

2.1.1. System Management

This section explains how to assign a name, location, and contact information for the switch. This information helps in identifying each specific switch among other switches in the same local area network. Entering this information is optional.

- 1. Log into your switch management page.
- 2. Click System, and click on System management.

→ Ø http://192.168.0.1/	の 🗸 🖒 💋 Planex Switc	h ×	☆ ★3
	16	Port Gigabit Layer 2 Web Smart PoE S	witch
SWE-0216G3	∧ Management		
SWE-0216G3	Management		
System	System Description:	SWE-0216G3	
System Management	System Object ID:	1.3.6.1.4.1.4537.201	
IPv6 System Settings	System Name:		
IPv6 Neighbor Settings	System Location:		
Administration	System Contact:		
System Time System Time System Time System Log Settings OHCP Auto Configuration System Log Settings OHCP Auto Configuration System Log Settings OHCP Auto Config Access Control Config Access Control Config Access Control Config OHCP Success OHCP Success OHCP Success OHCP Success OHCP Success Statistic Chart Suc Saturgs to Flash	~		Apply

3. 5 setting is shown.

System description	[Fixed]Model name
System Object ID	[Fixed]SNMP MIB ID
System Name	[Variable]Switch name(0-16 letter)
System location	[Variable]Switch location(0-32letters)
System Contact	[Variable]Switch contact(0-32letters)

Review the settings. When you have completed making changes, click Apply to save the settings.

2.1.2. IPv4 Setup

This section explains how to setup switch IPv4 address. Mostly, IP address is change to your existing network to access management page from your network

- 1. Log into your switch management page.
- 2. Click System, and click on IPv4 Setup.

→ Ø http://192.168.0.1/	, P マ C 🥖 Planex Switch	×	↑ ★
	16Pc	ort Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	IPv4 Setup		
SWE-0216G3	IPv4 Setup		
Switch Info	System MAC Address:	00:22:CF:EE:5A:BD	
System Management	System IP Address:	192 . 168 . 0 . 1	
IPv6 System Settings	System Subnet Mask:	255 . 255 . 255 . 0	
IPv6 Neighbor Settings	System Default Gateway:		
Administration	System IP Mode:	Static V	
System Time System Time St Settings Office Auto Configuration System Log Settings Provised Interface Asker Settings Asker Settings Asker Settings Asker Settings Office VLAN Security Office VLAN Office Settings Settings Office Settings Office Settings Office Settings Settings Settings Office Settings Office Settings Office Settings Office Settings Office Save Settings to Flash	×		Apply

3. 5 setting is shown.

System MAC Address	[Fixed]switch MAC address
System IP Address	[Variable]Input IP each octet.(4 octets)
System Subnet mask	[Variable]Input same subnet (4 octets)
System Default Gateway	[Variable]Gateway IP Address (4 octets)
System IP Mode	[Selection]DHCP/Static selection.

Review the settings. When you have completed making changes, click Apply to save the settings

NOTE: "DHCP" is selected in "System IP Mode", Your switch IP is decided by DHCP server in same network. If no DHCP server is available, the switch IP address fixed "192.168.0.1" and IP Mode setting turn into "Static".

2.1.3. IPv6 System settings

This section explains how to setup IPv6 address. This IPv6 address is used for in-band connectivity only, not effect port address learning, switching, routing.

- 1. Log into your switch management page.
- 2. Click System, and click on IPv6 System Settings.

	16Port G	igabit Layer 2 Web Smart	PoE Switch	
SWE-0216G3	IPv6 System Settings			
SWE-0216G3	IPv6 System Settings			
Switch Info	IPv6 State:	Disabled V		
System Management	DHCPv6 Client	Disabled V		
IPv6 System Settings	IPv6 Unicast Address / Prefix Length:		(e.g.:3710::1/64)	
IPv6 Neighbor Settings	IPv6 Static Gateway:		(e.g.:3710::9)	
	IPv6 Dynamic Gateway:			
User Interface	· · · · · · · · · · · · · · · · · · ·			
SSL Settings				Apply
DHCP Auto Configuration	NS Retransmit Time Settings			
Physical Interface	NS Retransmit Time:	1 sec (1-3600)		
E Contraction of the second se				
Access Control Config				Apply
E INTERNATION	Link Local Address Settings	D' II IN		
e 💼 Security	Automatic Link Local Address	Disabled V		
Power Over Ethernet	Link Local Address / Prefix length		(e.g.:FE80::6/10)	
				Apply
E I Statistic Chart				
Save Settings to Flash	~			

3. 8 setting is shown.

IPv6 System Settings	
IPv6 State	[Selection]Enabled / Disabled selection
DHCPv6 Client	[Selection] Enabled / Disabled selection
IPv6 Unicast Address /	[Variable]Input unicast IPv6 address and subnet
Prefix Length	mask with length after "/"
IPv6 Static Gateway	[Variable]Input gateway IPv6 address
IPv6 Dynamic Gateway	[Fixed].When IPv6 DHCP enable, Gateway address is
	shown from DHCPv6 configuration.

NS Retransmit Time Settings		
NS Retransmit Time	[Variable]Input cycle time of Neighbor Solicitation	
	packet of ICMPv6	

Link Local Address Settings		
Automatic Link Local	[Selection]Enabled / Disabled selection	
Address		

Link Local Address / Prefix	[Variable]Input link local IPv6 address and subnet
length	mask with length after "/"

Review the settings. When you have completed making changes, click Apply to save the settings

2.1.4. IPv6 Neighbor Setting

This section explains how to setup IPv6 Neighbor setting. You could modify IPv6 supported neighboring devices.

- 1. Log into your switch management page.
- 2. Click System, and click on IPv6 Neighbor Settings

← ⇒ Ø http://192.168.0.1/	り - C @ Planex Switch >>	< No.		↑ ★ ☆
	16Port Gigal	bit Layer 2 Web Smart PoE	Switch	
SWE-0216G3	IPv6 Neighbor Settings			
SWE-0216G3	IPv6 Neighbor Settings			
System	Link Layer MAC Address		* (XX:XX:XX:XX:XX	XX)
IPv6 System Settings				Add
Administration	IPv6 Neighbor Settings			
User Interface	Neighbor IPv6 Address	Link Layer MAC Address	State	Action
SSL Settings	*	*	All 🗸	Find Delete
System Log Settings	Page 0/0 First Page	Previous Page Next Page	Last Page Page	GO
Bridge				
Access Control Config				
⊞				
Security Power Over Ethernet				
DHCP Snooping				
E Chart				
Tools Save Settings to Flash				

3. 2 setting is shown.

IPv6 Neighbor Address		
Neighbor IPv6 Address	[Variable]Input Neighbor IPv6 address.	
Link Layer MAC Address	[Variable]Input MAC address, paired Neighbor IPv6	
	address	

Review the settings. When you have completed making changes, click Add to save the settings

4. IPv6 Neighbor Setting List is shown.

You can search with IPv6 address, MAC address, or State. And you can delete IPv6 Neighbor entry directory. After search, each entry shows Delete button, and delete entry one by one.

2.1.5. IP Access List

This section explains how to limit management page with IP address in white list way.

- 1. Log into your switch management page.
- 2. Click System, and click on IP Access List

(→) 🤗 http://192.168.0.1/	の - C 🎑 Planex Switch	×	<u>+</u> +
	16P	ort Gigabit Layer 2 Web Smart PoE S	Switch
SWE-0216G3	IP Access List		^
SWE-0216G3	IP Access List		
⊖ Ø System	IP Restriction Status:	Disabled V	
System Management IPv4 Setup IPv6 System Settings			Apply
IPv6 Neighbor Settings	IP Address Settings		
Administration	IP Address:		Pv4
System Time		0	IPv6
SSL Settings			Add
System Log Settings	IP Access List table		Delete All
Bridge	Index	Accessible IP	Action
SNMP Access Control Config		< < IP List is empty > >	
E MON			
E Courity			
Power Over Ethernet DHCP Snooping			
E ILDP Statistic Chart			
Tools Save Settings to Fleeb	~		~
Save Settings to Flash			

3. 1 setting is shown.

IP Access List	
IP Restriction Status	[Selection]Enabled / Disabled selection

Review the settings. When you have completed making changes, click Apply to save the settings

4. 1setting is shown

IP address settings	
IP Address	[Variable]Input accessible IP address.(max 10
	entry)

Review the settings. When you have completed making changes, click Apply to save the settings

5. Management page accessible IP List is shown.

You can delete with entry with push Delete button, and delete all entries with pushing Delete all button.

2.1.6. Administration

(i

This section explains how to change the administrator password and create other administrative user accounts for access to the switch management page.

NOTE: Index1 default admin user cannot be change user name and delete.

- 1. Log into your switch management page.
- 2. Click System, and click on Administration

→ 🦉 http://192.168.0.1/	5 - Q	Planex Switch	×		<u>, – – –</u> ↑ ≯
		16Port	Gigabit Layer 2 V	Web Smart PoE Switch	
SWE-0216G3	∧ Administ	tration			~
SWE-0216G3	Administrat	tion Settings			
⊒ System	User Name:		(Maximum le	ngth is 12)	
System Management	Password:		(Maximum le	ngth is 12)	
IPv6 System Settings	Confirm Passw	ord:			
IP Access List					Add
User Interface	Administrat	tion table			
SSL Settings	Ind	ex	User Name	Password	Action
System Log Settings	1		admin	*****	Modify
Physical Interface					
SNMP Access Control Config					
RMON					
Power Over Ethernet					
Statistic Chart Tools					
Sove Settings to Elach	v				~

3. 3 setting is shown.

Administration Settings	
User Name	[Variable]Input user name of additional
	account.(1-12 alphanumeric letter)
Password	[Variable]Input password of additional
	account.(1-12 alphanumeric letter)
Confirm Password	Input password again.

Review the settings. When you have completed making changes, click Add to save the settings

4. Administration table is shown.

You can delete additional user. And change another password.



Review the settings. When you have completed making changes, click Apply to save the settings

2.1.7. User Interface

This section explains how to enable SNMP on the switch and modify the switch management page idle timeout settings

- 1. Log into your switch management page.
- 2. Click System, and click on User Interface

→ Ø http://192.168.0.1/	り - C 🏉 Planex Switch	×	↑ ★ ¤
	16Por	t Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	User Interface		
Switch Info	Status Settings SNMP Agent Web Server Status:	Enabled V Enabled	
IPv6 System Settings IPv6 Neighbor Settings IPv6 Neighbor Settings IP Access List Administration	Timeout Settings		Apply
User Interface System Time SSL Settings DHCP Auto Configuration	Web Idle Timeout: Group Interval:	10 Min. (3-60) 120 Sec. (0 or 120-1225, 0 is Disabled)	
System Log Settings Physical Interface Solution Solu			Apply
RMON RMON Security Ovice VLAN Security Over Over Ethernet OHCP Snooping			
B	,		
http://192.168.0.1/iss/ipv6cfg.html?Gambit=	-idddjdfdgdddcdcdcdkdbdkdjdedkdbgegng	jgogkdbge	

3. 2 settings are shown.

Status Settings	
SNMP Agent	[Selection]Enabled / Disabled selection.
Web Server Status	[Fixed]Display current web management status

Review the settings. When you have completed making changes, click Apply to save the settings

4. 2 settings are shown

Timeout Settings	
Web Idle Timeout	[Variable]Input auto logout time(3-60min)
Group Interval	[Variable]Input SNMP search interval(0:disable
	120-1225sec)

Review the settings. When you have completed making changes, click Apply to save the settings

2.1.8. System Time

This section explains how to setup switch clock. It used for system logging.

- 1. Log into your switch management page.
- 2. Click System, and click on System Time

	-			
		16Port	Gigabit Layer 2 Web Smart PoE Switch	
	-			
SWE-0216G3	~	System Time		^
SWE-0216G3		Current Time Settings		
Switch Info		Clock Mode:	Local Time	
System Management		Current Time:	1 Jan 2009 00:00:35	
IPv6 System Settings		Time Zone:		
IPV6 Neighbor Settings		Date/Time Settings		
Administration User Interface		Clock Mode:	Local Time V	
System Time				
DHCP Auto Configuration		Local time Settings		
System Log Settings		Date Settings:	2009 / 1 / 1 (YYYY:MM:DD)	
E Bridge		Time Settings:	00 : 35 (HH:MM:SS)	
E Control Config		Simple Network Time Protocol (NTP) Settings	
		ONTO Drivery Ocean	0 . 0 . 0 . 0 • IPv4	
E Curity		SNTP Primary Server.	○ IPv6	
Power Over Ethernet DHCP Snooping		CNTD Casendary Conver	0 . 0 . 0 . 0 • IPv4	
LLDP Statistic Chart		SINTE Secondary Server.	○ IPv6	
E Tools	~	SNTP Poll Interval:	1 Min.(1-60)	~
Save Settings to Flash		Time Zone:	(CMT 09:00) Pacific Time (US & Canada) Tiiyana	

3. 14 settings are shown.

Current Time Settings	
Clock Mode	[Fixed]Current Clock mode is shown which of "Local
	Time" or "SNTP".
Current Time	[Fixed]Date and Time are shown(Default
	2009-01-01 00:00:00 + uptime shown)
Time Zone	[Fixed]If this switch is SNTP mode, Time zone that
	used for SNTP is shown.

Date/Time Settings	
Clock Mode	[Selection]Local Time / SNTP selection

Local Time Settings		
(availed in Clock Mode: Local Time)		
Date settings	[Variable]Input now date(year, month, day for each	
	form)	
Time Settings	[Variable]Input now time (hour, minute, seconds for	
	each form)	

Simple Network Time protocol(SNTP)Settings		
(availed in Clock Mode: SNT	Р)	
SNTP Primary Server	[Variable]Input first source SNTP server IP address.	
SNTP Secondary Server	[Variable]Input second source SNTP server IP	
	address.	
SNTP Poll interval	[Variable]Input interval time to synchronize time	
Time Zone	[Selection] choose time zone where this switch is	
	located.	

Additional Time parameters		
Daylight Saving Time	[Selection]Enabled / Disabled selection	
Status		
From	[Selection]Select date of starting DST	
То	[Selection]Select date of ending DST	
DST Offset	[Selection]30min / 1hr selection offset length	

Review the settings. When you have completed making changes, click Apply to save the settings

2.1.9. SSL Settings

This section explains how to setup access management page on SSL connection. You could access switch secure

- 1. Log into your switch management page.
- 2. Click System, and click on IPv6 Neighbor Settings

← → Ø http://192.168.0.1/	P - C 🏉 Planex Switch ×	↑ ★ ¤
	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	ssi settings	
SWE-0216G3 Switch Info Switch Info System Management System Settings If Pv3 Stytem Settings If Pv3 Stytem Settings If Pv6 Stytem Settings Stytem Time SSL Settings DHCP Auto Configuration System Log Settings DHCP Auto Config Stytem Configuration System Log Settings DHCP Auto Config SMMP Solution Charling Solution Charling Solution Charling Solution Charling DHCP Snooping DHCP Snooping Solution Charl Solu	SSL Status: SSL Status: Disabled ▼	Apply
Tools	~	~

3. 1 setting is shown.

SSL Settings	
SSL Status	[Selection]Enabled / Disabled selection

Review the settings. When you have completed making changes, click Apply to save the settings



NOTE: When turn on SSL Status, You cannot access ttp://192.168.0.1 (switch IP), but you can access https://192.168.0.1 instead of previous address.

2.1.10. DHCP Auto Configuration

This section explains how to configuration function via DHCP. You can update Config file via DHCP

- 1. Log into your switch management page.
- 2. Click System, and click on DHCP Auto Configuration

← → Ø http://192.168.0.1/		↑ ★ ¤
	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 System System Management PrV System Settings PrV System Settings PrV System Settings PrV System Time SSL Settings System Time System Time System Log Settings Prysical Interface System Log Settings DHCP Auto Configuration System Log Settings DHCP Auto Configuration System Log Settings DHCP Auto Configuration System Config MMDP	16Port Gigabit Layer 2 Web Smart PoE Switch Auto Configuration Settings DHCP Auto Configuration Settings Auto Configuration State Disabled >	Apply
	~	

3. 1 setting is shown.

DHCP Auto Configuration	
Auto Configuration Mode	[Selection]Enabled / Disabled selection

Review the settings. When you have completed making changes, click Apply to save the settings



NOTE: You can make configuration file at TOOL>Config File Upload/Download>via HTTP or via TFTP. And put Config file as BOOT file in TFTP server.

2.1.11. System Log Setting

This section explains how to configuration function via DHCP. You can update Config file via DHCP

- 1. Log into your switch management page.
- 2. Click System, and click on System Log Setting

→ Ø http://192.168.0.1/	🎗 → 🕈 🌈 Planex Switch	×	n ★
PLANEX COMM.	16Port	Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	System Log Settings		~
SWE-0216G3	System Log Settings		1
⊡- Switch into	Time Stamp	Enabled V	
System Management	Message Buffered Size:	50 (1-200)	
IPv4 Setup	Syslog Status:	Disabled V	
IPv6 Neighbor Settings IP Access List Administration	Syslog Server IP:	0 . 0 . 0 . 0 . 0 . 0 IPv4	
System Time	Facility:	local0 🗸	
SSL Settings	Logging Level:	Info 🗸	
System Log Settings Physical Interface Physical Interface Single Single More Source Config Physical Interface Single More VLAN Source VLAN Source VLAN Source VLAN Source VLAN Source Source Statistic Chart Statistic Chart Save Settings to Flash	1 local0/Info Jan 1 00:0 2 local0/Info Jan 1 00:0 3 local0/Critical Jan 1 00:0	Apply 0:18 Port 16 link up, 100Mbps FULL duplex 0:33 Successfully logged as User - admin 0:37 System started up	•

3. 6 settings are shown.

System Log Setting	
Time Stamp	[Selection]Enabled / Disabled selection
Message Bufferd Size	[Variable]Input how many line logs saved in switch.
	(1-50)
Syslog Status	[Selection]Enabled / Disabled selection
Syslog Server IP	[Variable]Input syslog server IP address.
Facility	[Selection]Select syslog server facility # . (You can
	help logging separate another device).
Logging Level	[Selection]Alert/Critical/Warning/Info selection.
	(message increase Alert <critical<warning<info)< td=""></critical<warning<info)<>

Review the settings. When you have completed making changes, click Apply to save the settings

2.2. Physical Interface

This section explains how to configure interface settings.

- 1. Log into your switch management page.
- 2. Click Physical Interface.

~										
→	- م	C 🥖 Pla	inex Switch	×						í
			16P	ort Gigabi	t Laver 2 W	eb Smart	PoE Swite	:h		
				j	,					
	Director	1 7	6							
SWE-0210G3	Physic	ai Inter	race							
Switch Info	Physical	Interface	Table							
System Physical Interface	Port Trun	k Type	Link Status	Admin. Status	Mode	Jumbo	Flow Ctrl	EAP	BPDU	Action
⊞ · · · · · · · · · · · · · · · · · · ·	All -	-	-	Ignore V	Ignore N	✓ Ignore ✓	Ignore V	Ignore V	Ignore V	Apply
SNMP Access Control Config	1	1000TX	Down	Enabled 🗸	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply
RMON	2	1000TX	Down	Enabled 🗸	Auto	Enabled	Disabled V	Disabled 🗸	Enabled 🗸	Apply
Orice VLAN	3	1000TX	Down	Enabled V	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply
Power Over Ethernet	4	1000TX	Down	Enabled V	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply
General DHCP Snooping	5	1000TX	Down	Enabled V	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply
E Chart	6	1000TX	Down	Enabled V	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply
Save Settings to Flash	7	1000TX	Down	Enabled V	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply
	8	1000TX	Down	Enabled V	Auto	✓ Enabled ✓	Disabled V	Disabled V	Enabled V	Apply
	9	1000TX	Down	Enabled V	Auto	Enabled	Disabled V	Disabled V	Enabled V	Apply
	10	1000TX	Down	Enabled V	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply
	11	1000TX	Down	Enabled V	Auto					Apply
	10	1000TX	Down		Auto			Disabled V		Annh
	12	10001X	Down							Арріу
	13	1000TX	Down	Enabled V	Auto	Enabled V	Disabled V	Disabled V	Enabled V	Apply

Physical Interface table		
Port	[Fixed]Port Number	
	in combo port:	
	(1) copper cable	
	(2)100Mbps SFP module	
	(3)1Gbps SFP module	
Trunk	[Fixed]Trunk ID Number	
Туре	[Fixed]Supported Connection Type	
Link Status	[Fixed]Link Online / Offline Status.	
Admin.Status	[Selection]Enabled / Disabled selection for block	
	forwarding.	
Mode	[Selection]Auto / 1000/Full / 100/Full / 10/Full /	
	100/Half / 10/Half selection.	
	in combo port:	
	(2)100/Full only (3)Auto / 1000/Full	
Jumbo	[Selection]Enabled / Disabled selection for Jumbo	
	packet communication.	

3. Each port 10 settings are shown.

Flow Ctrl	[Selection] Enabled / Disabled selection for switch
	using pause packet for flow control
EAP	[Selection] Enabled / Disabled selection for switch
	allow EAP packet pass-through
BPDU	[Selection] Enabled / Disabled selection for switch
	allow BPDU packet pass-through

Review the settings. When you have completed making changes, click Apply to save the settings

2.3. Bridge

This section explains how to make network

2.3.1. Spanning Tree

This section explains how to setup spanning tree. Spanning tree protocol technology help you make network, less loop, more flexible.

2.3.1.1. Protocol Settings

This section explains how to setup protocol parameter.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Spanning Tree, and Click on Protocol Setting.

http://192.168.0.1/	Q - C Ø Planex 9	witch ×		
		16Port Gigabit La	ver 2 Web Smart PoE Switch	
		5	,	
SWE-0216G3	Spanning Tree Pro	otocol Settings		
SWE-0216G3	Spanning Tree Protoco	l Settings		
	Global STP Status:	Disabled 🗸		
Physical Interface	Protocol Version:	RSTP 🗸		
E Spanning Tree	Bridge Priority:	32768 🗸		
Protocol Settings	Maximum Age:	20	Sec. (6-40)	
MST Settings	Hello Time:	2	Sec. (1-10)	
MST Port Settings	Forward Delay:	15	Sec. (4-30)	
Trunk Config	Transmit Hold Count:	6	(1-10)	
Loopback Detection	Max Hop Count:	20	(6-40)	
Static Unicast	Note: Enabling Spanning-T	ree will temporarily caus	e the system to stop responding.	
IGMP Snooping	Hote: Enabling opaining-r	ree win temperanty caus	, the system to stop responding.	Apply
Bandwidth Control VLAN	Root Information			
😟 📵 GVRP	Root Bridge:	00:00:00:00:0	0:00:00:00	
	Root Cost:	0		
Access Control Config Book Book	Root Maximum Age:	20		
E Voice VLAN	Root Forward Delay:	15		
Security Power Over Ethernet	✓ Root Port:	0		~

3. 13 settings are shown.

Spanning Tree Protocol Settings			
[Selection]Enabled / Disabled selection			
[Selection]STP / RSTP / MSTP selection			
STP:IEEE802.1d			
RSTP:IEEE802.1w			
MSTP:IEEE802.1s			
[Selection]Select 0-61440 priority			
0 : root bridge			
32768;default			
[Variable]Input waiting time for non-BPDU packet			
coming(6-40)			

Hello Time	[Variable]Input cycle time for submitting BPDU
	packet when the switch is root bridge.(1-10)
Forward Delay	[Variable]Input wait time for learning and listening
	MAC address.(4-30)
Transmit Hold Count	[Variable]Input how many BPDU packet send from
	switch per second(1-10)
Max Hop Count	[Variable]Input how many hop BPDU packet from
	root bridge(6-40)

Root Information	
Root Bridge	[Fixed]root bridge ID shown
Root Cost	[Fixed]cost for root bridge path shown
Root Maximum Age	[Fixed]root bridge settings shown
Root Forward Delay	[Fixed]root bridge settings shown
Root Port	[Fixed]port to root bridge shown

Review the settings. When you have completed making changes, click Apply to save the settings

2.3.1.2. Port Setting

This section explains how to setup STP Port parameter.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Spanning Tree, and Click on Port Setting.

				1	6Port G	igabit La	yer 2 W	leb Sma	rt	PoE Sw	ritcl	h		
SWE-0216G3	~	Ро	rt Setting	s										-
SWE-0216G3	1	Por	t Settings											
Switch info System Physical Interface		Port	STP Status	Priority	Admin Cost (0 = Auto)	External Cost	State	Edge		P2P	r	Restricted Role	Restricted TCN	Migrate
Bridge Gridge <p< td=""><td></td><td>All</td><td>Ignore 🗸</td><td>Ignore 🗸</td><td></td><td></td><td>-</td><td>Ignore</td><td>\checkmark</td><td>Ignore</td><td>~</td><td>Ignore 🗸</td><td>Ignore 🗸</td><td>Restar</td></p<>		All	Ignore 🗸	Ignore 🗸			-	Ignore	\checkmark	Ignore	~	Ignore 🗸	Ignore 🗸	Restar
Protocol Settings		1	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	~	Auto	\checkmark	False 🗸	False 🗸	Restar
MST Settings		2	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	\checkmark	Auto	\checkmark	False 🗸	False 🗸	Restar
MST Port Settings		3	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	$\boldsymbol{\vee}$	Auto	\checkmark	False 🗸	False 🗸	Restar
Trunk Config		4	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	$\mathbf{\vee}$	Auto	\sim	False 🗸	False 🗸	Restar
Loopback Detection		5	Enabled V	128 🗸	0	20000	Disabled	Auto	$\mathbf{\vee}$	Auto	~	False V	False 🗸	Restar
Static Unicast		6	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	~	Auto	\sim	False V	False 🗸	Restar
GMP Snooping Bandwidth Control		7	Enabled V	128 🗸	0	20000	Disabled	Auto	$\mathbf{\vee}$	Auto	\checkmark	False V	False 🗸	Restar
		8	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	~	Auto	~	False 🗸	False 🗸	Restar
⊞ ···· B ··· B ··		9	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	$\mathbf{\vee}$	Auto	$\mathbf{\vee}$	False V	False 🗸	Restar
SNMP Access Control Config		10	Enabled 🗸	128 🗸	0	20000	Disabled	Auto	~	Auto	$\mathbf{\vee}$	False 🗸	False 🗸	Restar
E RMON		11	Enabled V	128 🗸	0	20000	Disabled	Auto	~	Auto	$\mathbf{\vee}$	False ∨	False V	Restar
Oice VLAN		40	E II IN	420.54	0	20000	Dischard	A		Auto		Calaa Md	Color Md	Destad

Port Settings	
Port	[Fixed]port number shown
STP Status	[Selection] Enabled / Disabled selection
	Enable : effect from BPDU packet
	Disable : passthrough BPDU packet
Priority	[Selection]Select priority in the case of same cost
	path are exists.(0-240, upper port selecting)
Admin Cost	[Variable]Input path cost if you need setting path
	cost expressly(0-20000000)
External Cost	[Fixed]Path Cost shown
	100Mbps : 200000
	1Gbps : 20000
State	[Fixed]STP tree state shown
	Blocking / Listening / Forwarding /Disable
Edge	[Selection]Select Force True / Force False / Auto
	Force True: non-bridge node connected
	Force False: bridge node connected

3. 10 settings are shown.

P2P	[Selection] Select Force True / Force False / Auto
	Force True: full-duplex rapidly entering forwarding
	state.
	Force False: half-duplex operation or non-edge port
	use
Restricted Role	[Selection]Select True / False
	True : non connected root network
	False: maybe connected root network
Restricted TCN	[Selection]Select True / False
	True: DON'T affect Topology Change Notification.
	False : affect Topology Change Notification

If you want change port accept RSTP or STP BPDU configuration, Click Migrate Review the settings. When you have completed making changes, click Apply to save the settings

2.3.1.3. MST Setting

This section explains how to setup MSTP parameter.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Spanning Tree, and Click on MST Settings.

← → Ø http://192.168.0.1/	ည + ငံ 💋 Plane	x Switch ×		↑ ★
		16Port Gigabit Layer 2 We	b Smart PoE Switch	
SWE-0216G3	∧ MST Settings			~
SWE-0216G3	MST Configuration I	dentification Settings		
E System	Configuration Name:	0022cfabcdef		
Physical Interface Bridge	Revision Level:	0 (0-65535)		
Spanning Tree				Apply
MST Settings	MST Instance Settin	gs		
MST Port Settings	MSTI ID:	* (1-31)		
E Config	VID List:		1-4094)	
Loopback Detection	Priority:	0 ~		
Static Unicast				Add
Bandwidth Control	MST Table			
	MSTIID	VID List	Priority	Action
DoS	CIST	1-4094	32768 🗸	Apply Delete
Access Control Config				
in in iteration in the second				
	~			~
Power Over Ethernet				

3. 2 settings are shown.

MST Configuration Identifica	tion Setting
Configuration Name	[Variable]Input unique name for Multiple Spanning
	Tree Instance. Default value setup MAC address
Revision Level	[Variable]Input same MSTP region value.

Review the settings. When you have completed making changes, click Apply to save the settings

4. 3 settings are shown

MST Instance Settings	
MSTI ID	[Variable]Input MSTI ID associated with VID List.
VID List	[Variable]Input VID List
Priority	[Selection]Select bridge priority
	low number is hi priority

Review the settings. When you have completed making changes, click Add to save the settings

5. MST Table is shown

If change any parameter, click Apply. Delete entry, click Delete.

2.3.1.4. Instance Information

This section explains how to check MSTI.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Spanning Tree, and Click on Instance Information.

(>) @ http://192.168.0.1/	Q	🗝 🖒 🙋 Planex Swi	tch	×		1	n ★
		10	6Port Gig	gabit Layer 2 Web Smar	t PoE Switch		
SWE-0216G3	🔨 Insta	nce Informati	on				~
SWE-0216G3	Instanc	e Information					1
	MSTI ID	Internal Root Cost	Root Port	Regional Root Bridge	Designated Bridge	Instance Priority	
Physical Interface	CIST	0	0	80:00:00:22:CF:EE:5A:BD	80:00:00:22:CF:EE:5A:BD	32768	
Port Settings MST Settings MST Settings MST Settings MST Settings MST Port Settings Static Unicast Static Militcast Static Militcast GVRP Bandwidt Control SNMP Access Control Config Access Control Config NiON Singer Setting Power Over Ethernet	~						<

3. Current MSTI information table is shown.

2.3.1.5. MST Port Setting

This section explains how to check MSTI.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Spanning Tree, and Click on MST Port Settings

→ 🥖 http://192.168.0.1/	Ş.	ට - එ 🏉 Planex	Switch	×					A
			16Port G	igabit Layer 2	Web Smart F	oE Swit	ch		
SWF-0216G3	A MST	Port Setting	15						
SWE-0216G3	MST P	Port Settings							
	Select N	MST Port	16 🗸						
Physical Interface	MST P	Port Info							
Protocol Settings	MSTI ID) Designate	d Bridge	Internal Path Cost	Admin Path Cost (0 = Auto)	Priority	State	Role	Action
MST Settings	CIST	80:00:00:22:C	F:EE:5A:BD	200000	0	128 🗸	Forwarding	Designated	Apply
Inst Polt Settings Inst Config In									

3. Current MSTI information table is shown.

2.3.2. Trunk Config

Trunking technology give you make redundancy and high speed network.

2.3.2.1. Trunking

This section explains how to setup Trunking group. You can make up to 8 group trunk path make in this switch

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Trunking Setting, and Click on Trunking.

				16F	ort	Gig	jabi	t La	yer	2 W	/eb	Sm	art I	PoE	Sw	itch	1		
SWE-0216G3	Trunking																		
SWE-0216G3	Trunking Se	itinas														_			
Switch Info	Trunk ID 1:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Physical Interface																		Disable 🗸 App	oly
E Bridge	Trunk ID 2:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
E frunk Config																		Disable 🗸 App	oly
Trunking	Trunk ID 3:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Port Priority																		Disable 🗸 App	oly
Mirroring	Trunk ID 4:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Loopback Detection																		Disable 🗸 App	oly
Static Multicast	Trunk ID 5:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
IGMP Snooping			_			_	_											Disable 🗸 App	oly
	Trunk ID 6:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
E GVRP																		Disable 🗸 App	oly
E SNMP	Trunk ID 7:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Access Control Config																		Disable 🗸 App	oly
	Trunk ID 8:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
🗉 📾 Security																		Disable 🗸 App	oly
Power Over Ethernet																			
	 Note: Disabling 	g will t	urn of	ff the	funct	ion a	nd ret	urn a	ll valı	ies to	defa	ult.							

3. 3 settings are shown

Trunking Settings	
Trunk ID	[Fixed] List up 1-8 trunk group id.
Port List1-16	[Check Box]Check same trunk group port
State	[Selection]Select Active / Passive / Manual / Disable.

Review the settings. When you have completed making changes, click Add to save the settings

2.3.2.2. LACP Group Status

This section explains how to check Trunking group

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Trunking Setting, and Click on LACP Group Status.

→ 🥖 http://192.168.0.1/	ာ - ငံ 🏉 Planex Swi	tch ×		† *
	1	6Port Gigabit Layer 2 Web Smart	PoE Switch	
	_			
SWE-0216G3	LACP Group Status			~
SWE-0216G3	LACP Group Status			
	System Priority:	32768		
Physical Interface	System ID:	00:22:CF:EE:5A:BD		
E Contraction Spanning Tree	Group: 1			
Trunk Config	Aggregator	Active Port List	Standby Port List	
LACP Group Status	1			
Mirroring	Group: 2			
Static Unicast	This group doesn't exist			
Static Multicast	Group: 3			
Bandwidth Control	This group doesn't exist			
	Group: 4			
	This group doesn't exist			
SNMP	Group: 5			
	This group doesn't exist			
Voice VLAN	Group: 6			
Power Over Ethernet	This group doesn't exist			
DHCP Snooping	Group: 7			~
	This aroun doesn't exist			

Review current status.

2.3.2.3. Port Priority

This section explains how to setup Trunking group. You can make up to 8 group trunk path make in this switch

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Trunking Setting, and Click on Port Priority

				π λ
сомм.	16Pc	ort Gigabit Layer 2 Web	Smart PoE Switch	
	_			
SWE-0216G3	 Port Priority 			^
SWE-0216G3	Port Priority Status			
	System Priority:	32768		
Physical Interface	System ID:	00:22:CF:EE:5A:BD		
😟 🍓 Spanning Tree	Port Driority Cottings			
Trunking	Port Priority Settings		Priority (0-65535)	_
LACP Group Status	1		0	
Mirroring	2		0	
Static Unicast	3		0	
Static Multicast	4		0	
🗈 🚭 Bandwidth Control	5		0	
ti	6		0	
E QoS	7		0	
Access Control Config	8		0	
	9		0	
Gecurity Power Over Ethernet	10		0	
DHCP Snooping	✓ 11		0	~
E CLOP	12		0	

In same Trunk Group and same priority, lower port is used.

3. Review the settings. When you have completed making changes, click Add to save the settings
2.3.3. Mirroring

This section explains how to setup Mirroring. It's used for duplicate or capture packet.

- 1. Log into your switch management page.
- 2. Click Bridge, and clicks mirroring.

SWF-0216G3	•	Mirro	rina															
SWE-0216G3		Mirrori	na Sott	inge														
Switch Info System Physical Interface		Status: Mirror Tai	aet Port:	ings			Disabl	ed 🗸										
Bridge Spanning Tree Trunk Config		Mirrori	ng Port	t Settin	gs													
Mirroring Loopback Detection		Ingress P	ort:															
Static Unicast			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E IGMP Snooping		All																
Bandwidth Control		Egress P	ort:															
🗄 🍘 GVRP			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		All																
																		Apply

3. 4 settings are shown

Mirroring Settings	
Status	[Selection]Enabled / Disabled selection
Mirror Target Port	[Selection]Select output duplicated packet port

Mirroring Port Settings	
Ingress Port	[Check Box]Check duplicates Rx packet Port.
Egress Port	[Check Box]Check duplicates Tx packet Port.

2.3.4. Loopback Detection

This section explains how to setup Loopback discover and block function. It makes avoid confuse network.

- 1. Log into your switch management page.
- 2. Click Bridge, and click Loopback Detection.

		16Port Gigabit Layer 2 Web S	mart PoE Switch	
SWE-0216G3	Loopback De	tection		
SWE-0216G3	Loopback Detect	ion Settings		
Switch Info	State	O Enabled Disabled		
Physical Interface	Interval	2 sec (1-32767)		
Endge E Spanning Tree	Recover Time	60 sec (0 or 60-100	0000, 0 is Disabled)	
Trunk Config Mirroring	Note: Disable will re	set the setting to default value then turn off the fur	action	
Loopback Detection	Loophack Dotoct	ion Table	icuon.	Apply
Static Multicast	Port	Loopback Detection State	Loop Status	Action
GMP Snooping Bandwidth Control	All		-	Apply
	1	Disabled V	Normal	Apply
Dos	2	Disabled ¥	Normal	Apply
SNMP Access Control Config	3	Disabled V	Normal	Apply
RMON	4	Disabled V	Normal	Apply
E Security	5		Normal	Apply
Power Over Ethernet DHCP Snooping	6		Normal	Apply
E Chart	7		Normal	Apply
E Tools	× 8	Disabled V	Normal	Apply
	* 0	Disabled V	NOTHAL	Apply

3. 6 settings are shown

Loopback Detection Settings	
Status	[Selection]Enabled / Disabled selection

Loopback Detection Global S	Settings
Interval	[Variable]Input cycle time for sending detection
	packet
Recover Time	[Variable]Input cycle time for recover blocking port

Loopback Detection Table	
Port	[Fixed]All/1-16 ports are listed up.
Loopback Detection State	[Selection]Enabled / Disabled selection
Loop Status	[Check Box]Check duplicates Tx packet Port.

2.3.5. Static Unicast

This section explains how to setup Static Unicast. You can make specific MAC address packet to forward specific port.

- 1. Log into your switch management page.
- 2. Click Bridge, and click Static Unicast.

← → Ø http://192.168.0.1/	ターで Ø Planex Switch ×	<u>+</u> + ☆
	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3 SWE-0216G3	Static Unicast Address Table Static Unicast Address Settings Static Unicast Market Setting Static U	
B- ■ System Physical Interface Bridge Bridge Bridge	802.1Q VLAN: [14094] MAC Address: []: []: []: []: []: []: []: []: []: []	
Trunk Config Mirroring Loopback Detection	Port Member Settings Port Member	
Static Unicast Static Multicast IGMP Snooping	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 O </th <th>16 〇</th>	16 〇
Bandwidth Control Bandwidth Control Bandwidth Control Bandwidth Control Bandwidth Control	802.10 VLAN (Free entries 256 Total entries 0)	Apply
Brief Gos Brief SNMP Brief Access Control Config Brief RMON	VLAN Index MAC Address Port Members Acti	on
Voice VLAN Security Power Over Ethernet	<< 802.1Q VLAN Static Unicast Address Table is empty >> Page 0/0 First Page Providus Page Next Page Last Page GO	
DHCP Snooping DHCP Snooping DLDP Substitu Chart Drois Save Settings to Flash	v	

3. 3 settings are shown

Static Unicast Address Settin	ngs
802.1Q VLAN	[Variable]Input VLAN ID of source MAC address
	packet coming.
	Default, all port belongs with VLAN ID 0.
MAC Address	[Variable]Input source MAC address
Port Member Settings	[Selection]Select destination Port.

Review the settings. When you have completed making changes, click Apply to save the settings

4. 802.1Q VLAN Table is shown

If change destination port, click Modify. If delete entry, click Delete.

2.3.6. Static Multicast

This section explains how to setup Static Multicast. You can make specific MAC address packet to forward specific multi ports.

- 1. Log into your switch management page.
- 2. Click Bridge, and click Static Multicast.

→ Attp://192.168.0.1/	<u>»</u> ۵-۹	🗿 Planex Switch	1 ×										<u> </u>
PLanex		16F	Port Gigab	it Layer	2 Web	Smart	PoE S	Switcl	h				
	_												
SWE-0216G3	 Static Mult 	icast Addr	ess Table										
SWE-0216G3	Static Multicas	st Address Se	ttings										
🕀 🚵 System	802.1Q VLAN:			(1-4094	1								
Physical Interface Bridge	Group MAC Addres	SS :		:	:	:	:		:				
Spanning Tree Trunk Config	Group Member	-						_	_	_	_	_	
Mirroring	aroup Member	2 3	4 5	6	7 8	9	10	11	12	13	14	15	16
Loopback Detection Static Unicast	All												
Static Multicast													
Bandwidth Control													Apply
	802.1Q VLAN	(Free entrie	s:256, Total en	tries:0)								De	lete All
E QoS	VLAN ID		MAC Add	ress			Gro	up Memb	oers			Actio	n
SNMP Access Control Config			<< 5	Static mult	icast addr	ess table	is emp	ty >>					
E RMON		Page 0/0	First Page	Previous	Page	Next Pag	le	Last Pag	ge Pa	age	GO		
Power Over Ethernet													
E LLDP													
Statistic Chart Tools													
Save Settings to Flash	•												

3. 3 settings are shown

Static Multicast Address Set	tings
802.1Q VLAN	[Variable]Input VLAN ID of source MAC address
	packet coming.
	Default, all port belongs with VLAN ID 0.
MAC Address	[Variable]Input source MAC address
Port Member Settings	[Check Box]Check destination Port.
	All : Check all ports

Review the settings. When you have completed making changes, click Apply to save the settings

4. 802.1Q VLAN Table is shown

If change destination port, click Modify. If delete entry, click Delete.

2.3.7. IGMP Snooping

IGMP function helps efficiently IPv4 Multicast Network.

2.3.7.1. IGMP Snooping Settings

This section explains how to setup IGMP Snooping. You can make IGMP snoop and IGMP Query setting.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks IGMP Snooping, and click IGMP Snooping Settings.

	16	Port Gigabit L	ayer 2 Web Smart PoE Sv	vitch	
SWE-0216G3	IGMP Snooping Setti	ngs			
SWE-0216G3	IGMP Snooping Settings				
Switch Into System	Status:	Disabled V			
Physical Interface	Age-Out Timer:	260	Sec. (130-153025)		
🗄 💼 Spanning Tree	Querier Status:	Disabled V	•		
Trunk Config	Query Interval:	125	Sec. (60-600)		
Loopback Detection	Max Response Time:	10	Sec. (10-25)		
Static Unicast	Robustness Variable:	2	Sec. (2-255)		
IGMP Snooping	Last Member Query Interval:	1	Sec. (1-25)		
IGMP Shooping Settings	Router Timeout:	250	Sec. (120-1200)		
Bandwidth Control A					
⊞ · 🖿 GVRP	Note: The Host Timeout will be + Max Response Time)	computed automati	cally in Querier Enabled by (Robustne	ess Variable * Query Interval	and to a
⊞	ROO 10 VI AN EFFOR OPTIC	e:256 Total optrioe:	0)	A	ріу
Access Control Config		.3.200, Total childes.	o)	Member Porte	
	VEANID	<< IGMP Snoc	pping multicast address table is er	noty >>	
Security			ping maneust address table is er	ipty	
Power Over Ethernet DHCP Snooping					
🗄 🕘 LLDP					~

3. 8 settings are shown

IGMP Snooping Settings					
Status	[Selection]Enabled / Disabled selection.				
Age-Out Timer	[Variable]Input waiting time after no dynamic MAC				
	address exists.(130-153025)				
Querier Status	[Selection] Enabled / Disabled selection.				
Query Interval	[Variable]Input cycle time of sending IGMP				
	query(60-600)				
Max Response Time	[Variable]Input waiting time after member don't				
	response query				
Robustness Variable	[Variable]Input avoidance how ignore packet loss.				
Last Member Query	[Variable]Input time to high-speed secession				
Interval					
Router Timeout	[Variable]Input time to leave after multicast router				
	has no multicast group				

Review the settings. When you have completed making changes, click Apply to save the settings

4. 802.1Q VLAN Table is shown

You can check Multicast group by VLAN ID.

2.3.7.2. IGMP Snooping Router Port

This section explains how to check multicast router port and modify static router port.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks IGMP Snooping, and click IGMP Snooping Router Port.

← → Ø http://192.168.0.1/	<mark>}</mark> 5-۹	Planex Switch		U	+ ☆
		16Port Gigabit Layer	2 Web Smart PoE Switch		
SWE-0216G3	∧ IGMP Snoo	ping Router Port			~
SWE-0216G3	802.1Q VLAN				
	VLAN ID	Static Router Port	Dynamic Router Port	Action	
Bridge	1	N/A	N/A	Modify	
Bridge Bridge Bridge Brand Tree Banna Tree Trunk Config Mirroring Loopback Detection Static Unicast Static Mulicast Given Shooping Router F Bandwidth Control WLAN GVRP Gos SNMP Access Control Config RMON Vice VLAN Gecurity Power Over Ethemet GMC Shooping DHCP Snooping LLDP	~	11//	1973	in our y	

3. 802.1Q VLAN Table is shown

If you want to change static multicast router port, click Modify.

2.3.8. Bandwidth Control

Bandwidth control helps you limit pps base packet control for DLS, Broadcast, and Multicast. The other way, limit kbps base stream control for Tx & Rx.

2.3.8.1. Storm Control

This section explains how to setup Storm Control. This function helps you from network down by packet non- involuntarily stream

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Bandwidth Control, and click Storm Control.

				_		
http://192.168.0.1/)	D + C 🙆 Planex Si	vitch ×			f f
			6Port Gigabi	Laver 2 Web S	mart PoE Switch	
COMM.						
SWE-0216G3	∧ Stor	m Control				^
SWE-0216G3	Storn	Control Settings				
Switch Info	Port	DLF	Broadcast	Multicast	Threshold	Action
Physical Interface	All	Ignore 🗸	Ignore 🗸	Ignore 🗸	64pps x (1-22194)	Apply
E Spanning Tree	1	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
Trunk Config Mirroring	2	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
Loopback Detection	3	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
Static Multicast	4	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
GMP Snooping GMP Snooping GMP Snooping	5	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
Storm Control	6	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
Egress Rate Limiting	7	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
	8	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
⊞ ····································	9	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
Access Control Config	10	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
	11	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
Power Over Ethernet	12	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
E CP Snooping	▶ 13	Disabled V	Disabled V	Disabled V	64pps x 22194 (1-22194)	Apply
T Z						

3. 5 settings are shown

Storm Control Settings	
Port	[Fixed]Port number is listed up.
DLF	[Selection] Enabled / Disabled filtering selection.
(Destination Lookup	
Failure)	
Broadcast	[Selection] Enabled / Disabled filtering selection.
Multicast	[Selection] Enabled / Disabled filtering selection.
Threshold	[Variable]Input limit late with multiple 64pps(packet
	per second)

2.3.8.2. Ingress Rate Limiting

This section explains how to setup Ingress rate Limiting. You can setup port Incoming flow control each port.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Bandwidth Control, and click Ingress Rate Limiting.

СОММ.		16Port Gigabit Layer 2 web Sma	art Poe Switch	
SWE-021663	Thoress Pat	te Limiting		
SWE-0216G3	Ingress Rate L	imitina Settinas		
Switch Info	Bandwidth = 64kbps	s x rate limit		
Physical Interface	Port	Bandwidth	Status	Action
E Spanning Tree	All	64kbps x (1-15625)	Ignore 🗸	Apply
Trunk Config Mirroring	1	64kbps x 15625 (1-15625)	Disabled 🗸	Apply
Loopback Detection	2	64kbps x 15625 (1-15625)	Disabled V	Apply
Static Multicast	3	64kbps x 15625 (1-15625)	Disabled V	Apply
GMP Snooping GMP Snooping GMP Snooping	4	64kbps x 15625 (1-15625)	Disabled V	Apply
Storm Control	5	64kbps x 15625 (1-15625)	Disabled V	Apply
Egress Rate Limiting	6	64kbps x 15625 (1-15625)	Disabled V	Apply
⊕ ·· 🚭 VLAN ⊕ ·· 🚭 GVRP	7	64kbps x 15625 (1-15625)	Disabled V	Apply
E QoS	8	64kbps x 15625 (1-15625)	Disabled V	Apply
Access Control Config	9	64kbps x 15625 (1-15625)	Disabled V	Apply
	10	64kbps x 15625 (1-15625)	Disabled V	Apply
Gecurity Power Over Ethernet	11	64kbps x 15625 (1-15625)	Disabled V	Apply
DHCP Snooping	✓ 12	64kbps x 15625 (1-15625)	Disabled V	Apply

3. 3 settings are shown

Storm Control Settings	
Port	[Fixed]Port number is listed up.
Bandwidth	[Variable]Input limit late with multiple 64kbps.
Status	[Selection] Enabled / Disabled selection.

2.3.8.3. Egress Rate Limiting

This section explains how to Ingress rate Limiting. You can setup port Outgoing flow control each port

- 1. Log into your switch management page.
- 2. Click Bridge, clicks Bandwidth Control, and click Egress Rate Limiting.

Сомм.		16Port Gigabit Layer 2 web Sma	art POE Switch	
SWE-0216G3	 Egress Rate 	Limiting		
SWE-0216G3	Egress Rate Lin	iting Settings		
E System	Bandwidth = 64kbps	x rate limit		
Physical Interface	Port	Bandwidth	Status	Action
😟 ڟ Spanning Tree	All	64kbps x (1-15625)	Ignore 🗸	Apply
Mirroring	1	64kbps x 15625 (1-15625)	Disabled 🗸	Apply
Loopback Detection	2	64kbps x 15625 (1-15625)	Disabled V	Apply
Static Multicast	3	64kbps x 15625 (1-15625)	Disabled V	Apply
GMP Snooping GMP Snooping	4	64kbps x 15625 (1-15625)	Disabled V	Apply
Storm Control	5	64kbps x 15625 (1-15625)	Disabled V	Apply
Egress Rate Limiting	6	64kbps x 15625 (1-15625)	Disabled V	Apply
	7	64kbps x 15625 (1-15625)	Disabled V	Apply
E QoS	8	64kbps x 15625 (1-15625)	Disabled V	Apply
Access Control Config	9	64kbps x 15625 (1-15625)	Disabled V	Apply
	10	64kbps x 15625 (1-15625)	Disabled V	Apply
Security Power Over Ethernet	11	64kbps x 15625 (1-15625)	Disabled V	Apply
DHCP Snooping	✓ 12	64kbps x 15625 (1-15625)	Disabled ¥	Apply

3. 3 settings are shown

Storm Control Settings	
Port	[Fixed]Port number is listed up.
Bandwidth	[Variable]Input limit late with multiple 64kbps.
Status	[Selection] Enabled / Disabled selection.

2.3.9. VLAN

VLAN is used to make separated network in one switch.

2.3.9.1. Tagged VLAN

This section explains how to setup VLAN by tagging

- 1. Log into your switch management page.
- 2. Click Bridge, clicks VLAN, and click Tagged VLAN.

	~			x Switci		^											
Сомм.				16F	ort G	Sigabi	t Lay	er 2 V	Veb S	Smart	PoE	Swite	ch				
SWE-0216G3	Тадде	d VL	AN														•
SWE-0216G3	Tagged		Setting	15													
Switch Info	VLAN ID:		occun				(2-40	94)									_
Physical Interface	VLAN Nar	ne:						· ·			(3	2 charact	ers limit)				
E Spanning Tree	Managem	ent VLA	N:			Disable	ed 🗸										
Trunk Config						_											_
Loopback Detection	Static T	agged	2	2		5	6	7	0	0	10	44	42	42	44	45	46
Static Unicast			2	,	4		0	6	Ô	9		0	12	0	14	0	
GMP Snooping Bandwidth Control		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VLAN	Static U	ntagg	ed														
Port Settings		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Forwarding Table Mode	All	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Private VLAN	Not Me	nber															- H
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E · · · · · · · · · · · · · · · · · · ·	All	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲
Access Control Config																Apply	Clear
E Voice VLAN															F	Reset to	Default V
< >																1000110	Donualt -

3. 6 settings are shown

Tagged VLAN Settings	
VLAN ID	[Variable]Input VLAN ID.(2-4094)
VLAN Name	[Variable]Input VLAN nickname.(0-32letter)
Management VLAN	[Selection] Enabled / Disabled selection. If you select Enable, you can access management page from this VLAN.

Static Tagged	[Selection]Select port for add-tag when outgoing.
Static Untagged	[Selection]Select port for no add-tag when outgoing.
Not Member	[Selection]Select port for not VLAN member.

Review the settings. When you have completed making changes, click Apply to save the settings

4. Current VLAN table is shown.

2.3.9.2. Port Settings

This section explains how to setup Port Setting of acceptable incoming frame type.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks VLAN, and click Port Setting.

		16Por	rt Gigabit Layer 2 Web Smai	rt PoE Switch	
SWE-0216G3 🔨	Port Set	tings			·
SWE-0216G3	Port Setting	js			
	Port	PVID	Acceptable Frame Types	Ingress Filtering	Action
Physical Interface	All		Ignore V	Ignore 🗸	Apply
Bruge Spanning Tree	1	1	All	Enabled V	Apply
Trunk Config	2	1	All	Enabled V	Apply
Loopback Detection	3	1	All	Enabled V	Apply
	4	1	All	Enabled V	Apply
GMP Snooping Bandwidth Control	5	1		Enabled ×	Apply
₽ Ø VLAN	6	1		Enabled V	Apply
Port Settings	7	1		Enabled V	Apply
Forwarding Table Mode	0	1		Enabled +	Apply
Private VLAN	0			Enabled V	Арріу
ULAN Current Database	9	1		Enabled V	Арріу
DOS	10	1	All	Enabled V	Apply
Access Control Config	11	1	All	Enabled V	Apply
RMON	12	1	All	Enabled V	Apply
VOICE VEAN	13	1	All 🗸	Enabled V	Apply

3. 4 settings are shown

Port Settings	
Port	[Fixed]Port number is listed up.
PVID	[Variable]Input Port VLAN ID.
Acceptable Frame Types	[Selection] All / Tagged / Untagged and Priority
	Tagged selection.
Ingress Filtering	[Selection]Enabled / Disabled selection

2.3.9.3. Forwarding Table Mode

This section explains how to change MAC address learning mode.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks VLAN, and click Forwarding Table Mode.

→ Ø http://192.168.0.1/	アーC 愛 Planex Switch ×	*
PLanex	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	Forwarding Table Mode	
SWE-0216G3	Forwarding Table Mode Settings	
E System	Learning Mode: IVL V	
Physical Interface	Anniv	
Spanning Tree	7.444	
Mirroring		
Static Unicast		
Static Multicast GMP Snooping		
Bandwidth Control		
Tagged VLAN		
Forwarding Table Mode		
Dynamic Forwarding Tabl Private VLAN		
VLAN Current Database		
Des Cos		
Access Control Config		
E CON		
< >		

3. 1 setting is shown

Forwarding Table Mode	
Learning Mode	[Selection]IVL / SVL selection.
	IVL : Independent VLAN Learning
	MAC address table exist each VLAN. It is selected
	edge device connected.
	SVL : Sheared VLAN Learning
	MAC address table exist whole switch. It is selected
	cross over multi VLAN network.

2.3.9.4. Dynamic Forwarding Table

This section explains how to check current VLAN table.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks VLAN, and click Dynamic Forwarding table.

PLanex COMM.	,0 - (Planex Switch	× Gigabit Layer 2	Web Smart PoE Swite	ch	ń
SWE-0216G3	Dynamic	: Forwarding Tab	le			
SWE-021633 Switch Info System Physical Interface Bridge	Dynamic F Port: Dynamic F	prwarding Table Settir	All V Refresh			
Spanning Tree Trunk Config	ID	VID	Port	MAC Address	Туре	VLAN Mode
Mirroring	1	1	16	00-22-CF-11-22-33	Dynamic	802.1Q
Static Unicast Static Unicast GMP Snooping GMP Snooping Tagged VLAN GP of Settings Forwarding Table Mode Dynamic Forwarding Table Mode Dyna		Page 1/1 First P	Previous Pag	e Next Page Last Pa	ge Page C	30

3. 7 settings are shown

Dynamic Forwarding Table Setting					
Port	[Selection] All / 1-16 selection. When you select one,				
	Current Forwarding table is filtered.				

Dynamic Forwarding Table					
ID	[Fixed]Entry ID is shown				
VID	[Fixed]VLAN ID is shown				
Port	[Fixed]Port number is shown				
MAC Address	[Fixed]Shows MAC address.				
Туре	[Fixed]Dynamic / Static is shown.				
VLAN Mode	[Fixed]Shows VLAN type.				

Review the settings.

2.3.9.5. Private VLAN

This section explains how to Private VLAN. It is used as known as Port-based VLAN.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks VLAN, and click Private VLAN.

→ Attp://192.168.0.1/	+ م	C 🥖	Planex	Switch		×											÷
PLANEX				16P	ort G	igabi	t Lay	er 2 V	Veb S	Smar	t PoE	Swit	ch				
SWE-0216G3	Private	e VLA	N														~
SWE-0216G3	Private V	'LAN S	ettina	5													
Switch Info	State:		5			Enable	oled O	Disabled									
Eridge																	Apply
Trunk Config	Port Sele	ct			_												
Loopback Detection	Source Port			01 \	/												
Static Unicast	Forwarding	Ports:															
E GMP Snooping		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Bandwidth Control	Clear	\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓
Tagged VLAN																	Analy
Port Settings																	Арріу
Dynamic Forwarding Table Mode	Port List																
Private VLAN		Port								Po	rt Map						
VLAN Current Database		1								1	-16						
		2								1	-16						
SNMP		3								1	-16						
Access Control Config		4								1	-16						
Voice VLAN		5								1	-16						
$\langle \rangle$		6								1	-16						~

3. 3 setting are shown

Private VLAN Settings	
State	[Selection]Enabled / Disabled selection

Port Select	
Source Port	[Selection]Packet incoming port.
Forwarding Ports	[Check Box]Packet outgoing port

2.3.9.6. VLAN Current Database

This section explains how to check VLAN Current Database.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks VLAN, and click VLAN Current Database.

→ Ø http://192.168.0.1/	5 - Q	<i> Planex Switch</i>	×			÷
		16Port Gig	abit Layer 2 W	eb Smart PoE	Switch	
SWE-0216G3	VLAN Cur	rent Database				
SWE-0216G3	802.1Q Tagg	ed VLAN				
	VLAN ID	VLAN Name	VLAN FDB ID	Member Ports	Untagged Ports	Status
Physical Interface	1	DefaultVLAN	1	1-16	1-16	permanent
Branning Tree Truck Config Mirroring Mirroring Static Unicast Static Unicast Static Unicast Gord Settings Forwarding Table Mode Forwarding Table Mode Forwarding Table Mode Gord Settings Gord Se	~	Page 1/1 First Page	Previous Page	Next Page	Last Page Page	60

3. 3 setting are shown

802.1Q Tagged VLAN					
VLAN ID	[Fixed]Shows VLAN ID				
VLAN Name	[Fixed]Shows VLAN nickname				
VLAN FDB ID	[Fixed]Shows VLAN Forwarding Database ID				
Member Ports	[Fixed]Shows VLAN member port				
Untagged Ports	[Fixed]Shows VLAN untagged port.				
Status	[Fixed]Shows status.				

Review the settings

2.3.10. GVRP

GVRP technology is share VLAN information and configure automatically.

2.3.10.1. GVRP Global Settings

This section explains how to setup GVRP.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks GVRP, and click GVRP Global Settings.

← → Ø http://192.168.0.1/	P - C Ø Planex Switch ×	<u>†</u> ★ ‡
PLANEX COMM.	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	∧ GVRP Global Settings	
SWE-0216G3	GVRP Global Settings	
E System	GVRP Status: Enabled V	
Physical Interface Physical Interface Bardage Bardage Bardage Trunk Config Intrroring Intrroring Introving Static Uniticast Static Multicast Bandwidth Control Bardwidth Control Bardwidth Control GVRP GVRP Global Settings GVRP Global Settings Time Settings Bardwidth Control		Apply
SNMP ⊕ Access Control Config ⊕ RMON ⊕ Voice VLAN ⊕ Socurity ⊢ Power Over Ethernet ⊕ DHCP Snooping ⊕ LLDP	~	

3. 1 setting is shown

GVRP Global Settings	
GVRP Status	[Selection]Enabled / Disabled selection

2.3.10.2. Port Settings

This section explains how to setup GVRP port Settings.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks GVRP, and click Port Settings.

→		5 - 9,	🥖 Planex Switch 🛛 🗙		î î
			16Port Gigabit Lay	ver 2 Web Smart PoE Switch	
SWE-0216G3	^	GVRP Po	ort Settings		
SWE-0216G3		GVRP Port	Settings		
		Port	Dynamic Vlan Status	Restricted VLAN Registration	Action
Physical Interface		All	Ignore 🗸	Ignore 🗸	Apply
Engle Spanning Tree		1	Enabled V	Disabled V	Apply
Trunk Config		2			Apply
Loopback Detection		3			Apply
Static Unicast		4	Enabled V	Disabled V	Apply
IGMP Snooping		4	Ellabled V	Disabled V	Арріу
Bandwidth Control		5	Enabled V	Disabled V	Apply
🗉 📁 GVRP		6	Enabled V	Disabled V	Apply
GVRP Global Setting	s	7	Enabled V	Disabled V	Apply
Time Settings		8	Enabled V	Disabled V	Apply
E SNMP		9	Enabled V	Disabled V	Apply
Access Control Config		10	Enabled V	Disabled V	Apply
		11	Enabled V	Disabled V	Apply
Security Power Over Ethernet		12			Apply
DHCP Snooping	~	13			Apply

3. 1 setting is shown

GVRP Port Settings				
Port	[Fixed]All / 1-16 selection			
Dynamic Vlan Status	[Selection]Enabled / Disabled GVRP selection			
Restricted VLAN	[Selection]Enabled / Disabled following GVRP			
Registration	configuration selection			

Review the settings. When you have completed making changes, click Apply to save the settings

2.3.10.3. Time Settings

This section explains how to setup cycle Join/Leave.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks GVRP, and click Time Settings.

C nep.,//152.100.0.1/	~		^		
		16Port Gig	abit Layer 2 Web Smart	PoE Switch	
SWE-0216G3	GVRP	Time Settings			· · · · · · · · · · · · · · · · · · ·
SWE-0216G3	GVRP T	ime Settings			
	Port	JoinTime (10 ~ 2^30-14) msec	LeaveTime (30 ~ 2^31-18) msec	LeaveAllTime (40 ~ 2^31-8) msec	Action
Bridge	All				Apply
🗉 ڟ Trunk Config	1	200	600	10000	Apply
	2	200	600	10000	Apply
Static Unicast	3	200	600	10000	Apply
GMP Snooping	4	200	600	10000	Apply
	5	200	600	10000	Apply
GVRP Global Settings	6	200	600	10000	Apply
Port Settings	7	200	600	10000	Apply
E QoS	8	200	600	10000	Apply
Access Control Config	9	200	600	10000	Apply
	10	200	600	10000	Apply
Security	11	200	600	10000	Apply
Power Over Ethernet DHCP Snooping	12	200	600	10000	Apply
	13	200	600	10000	Apply

3. 1 setting is shown

Time Settings	
Port	[Fixed]All / 1-16 selection
Join Time	[Variable]Input cycle time to PDU packet.
Leave Time	[Variable]Input waiting time for restore non GARP
	state.
Leave All Time	[Variable]Input cycle time for checking all port in
	VLAN

$2.3.11. \ \mathrm{QoS}$

QoS technology help you shape traffic or reorder connection timing.

2.3.11.1. CoS

This section explains how to Class of Service.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks QoS, and click CoS.

→ Ø http://192.168.0.1/	♀ - ¢ Ø Planex Switch 16Port G	×	↑ ★
SWE-0216G3	CoS		
SWE-0216G3	CoS		
⊕ · @ System	QoS Status:	Enabled V	
Physical Interface	Traffic Class:	Queue	
Spanning Tree Trunk Config	CoS Table		
Mirroring	0 Low: Medium: High:	Highest : O	
Static Unicast	1 Low: Medium: High:	Highest : O	
IGMP Snooping	2 Low : Medium : High :	Highest: O	
Bandwidth Control Generation	3 Low: O Medium: O High: O	Highest: O	
GVRP	4 Low : Medium : High :	Highest: O	
	5 Low: O Medium: O High: O	Highest : O	
DSCP	6 Low : Medium : High :	Highest : O	
Scheduling Algorithm	7 Low : Medium : High :	Highest : O	
SNMP Access Control Config Access Control Config Voice VLAN Security	Note: Disable will reset the settings to f Disabling will turn off the function	actory default and turn off the function. n and return all values to default!	Apply

3. 2 settings are shown

CoS	
QoS Status	[Selection]Enabled / Disabled selection
Traffic Class	[Fixed]Current look up Traffic Class.

QoS Table	
CoS Value	[Fixed]0~7 CoS category is listed up
Priority Value	[Selection]Low / Medium / High / Highest

2.3.11.2. Port Priority

This section explains how to setup port base priority.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks QoS, and click Port Priority.

PLanex	16P	ort Gigabit Laver 2 Web Smart P	oE Switch	
COMM.	101	ont engaste Layon 2 mos emarch		
SWE-0216G3	Port Priority			~
SWE-0216G3	Port Priority Table			
Switch Info Switch Info Switch Info	Port	User Priority	Action	
Physical Interface	All	0 🗸	Apply	
E Spanning Tree	1	0 ~	Apply	
Trunk Config	2		Apply	
Loopback Detection	3		Apply	
Static Multicast	4		Apply	
GMP Snooping Bandwidth Control	5		Apply	
	6		Apply	
E 20S	7		Apply	
CoS	8		Apply	
DSCP	0		Apply	
IPv6 Traffic Class Priority	10		Арриу	
SNMP Access Control Config	10		Арру	_
RMON	11		Apply	
Voice VLAN Security	12		Apply	
< >	13	0 ~	Apply	~

3. 2 settings are shown

Port Priority					
Port	[Fixed]All /1-16 port are listed up				
User Priority	[Selection]0-7 priority selection.				

2.3.11.3.DSCP

This section explains how to setup Differentiated Services Code Point-base traffic settings.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks QoS, and click Port DSCP.

C PLANEX		465	Port Circhi	t Lover 2 M	h Cmart I	DeE Quitab			
Сомм.		10	Fort Gigabi	Layer 2 W	en Smart r	OE SWIICH			
SWE-0216G3	DSCP Clas	s Mapping							
SWE-0216G3	DSCD Class I	Iopping Cottin	<i>ac</i>						- î
Switch Info	DSCP Class I	apping Setting	Dicable						11
Physical Interface	DOCI- Mapping		Disable	au 🔹					
Bridge								Appl	у
	DSCP Class N	lapping Table							
Mirroring	DSCP In	Queue	DSCP In	Queue	DSCP In	Queue	DSCP In	Queue	
Static Unicast	0-15	~	16-31	\sim	32-47	\sim	48-63	~	
Static Multicast	0	Low 🗸	16	Low 🗸	32	Low 🗸	48	Low 🗸	
Bandwidth Control	1	Low 🗸	17	Low 🗸	33	Low 🗸	49	Low 🗸	
	2	Low 🗸	18	Low 🗸	34	Low 🗸	50	Low 🗸	
E GVRP E GVRP	3	Low 🗸	19	Low 🗸	35	Low 🗸	51	Low 🗸	
CoS	4	Low 🗸	20	Low 🗸	36	Low 🗸	52	Low 🗸	
	5	Low 🗸	21	Low 🗸	37	Low 🗸	53	Low 🗸	
Scheduling Algorithm	6	Low 🗸	22	Low 🗸	38	Low 🗸	54	Low 🗸	
SNMP	7	Low 🗸	23	Low 🗸	39	Low 🗸	55	Low 🗸	
Access Control Config	8	Low 🗸	24	Low 🗸	40	Low 🗸	56	Low 🗸	
	9	Low 🗸	25	Low 🗸	41	Low 🗸	57	Low 🗸	
	10	Low 🗸	26	Low 🗸	42	Low 🗸	58	Low 🗸	
Security	10								

3. 2 settings are shown

DSCP Class Mapping Settings				
DSCP in	[Fixed]0-63 all DSCP pattern are listed up.			
Queue	[Selection] Low / Medium / High / Highest			

$2.3.11.4.\,Scheduling\,Algorithm$

This section explains how to setup packet Scheduling Algorithm.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks QoS, and click Scheduling Algorithm.

A A A http://102.169.0.1/		
C 100 100 100 100 100 100 100 100 100 10		
	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	Scheduling Algorithm	
SWE-0216G3	Scheduling Algorithm Settings	
	Scheduling Algorithm Strict Priority	
Physical Interface Physical Interface Stridge Sanning Tree Physical Funk Config Difference Mirroring Loopback Detection		Apply
Static Unicast GMP Snooping GMP Snooping GMP Snooping GMP Snooping GMP Snooping GMP Snooping		
Cos		
IPv6 Traffic Class Priority SNMP Config		
RMON Voice VLAN Security		
<		

3. 1 setting is shown

Schedule Algorithm Settings	5
Scheduling Algorithm	[Selection]Strict Priority/Weighted Round Robin
	selection.
	Strict Priority : Until upper priority packet send all
	out, No lower priority packet going out.
	Weight Round Robin :
	each packet has chance of sending each term.
	In one term, The number of times to send packet is
	setup following ratio based on a priority

2.3.11.5. IPv6 Traffic Class Priority

This section explains how to setup Traffic Class Priority of IPv6.

- 1. Log into your switch management page.
- 2. Click Bridge, clicks QoS, and click IPv6 Traffic Class Priority.

→ Ø http://192.168.0.1/	P - C Ø Planex Switch ×	<u>↑</u> ★
	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	IPv6 Traffic Class Priority Settings	
SWE-0216G3	IPv6 Traffic Class Global Settings	
	State: C Enabled Disabled	
Physical Interface		Apply
E Config	IPv6 Traffic Class Settings	
Mirroring	IPv6 Traffic Class:	
Static Unicast	Class ID: Low	
Static Multicast		
Bandwidth Control		Add
	IPv6 Traffic Class Table	Delete All
E COS	Free Policies : 200	
CoS	I OTAL ENTITIES : U IDust Traffic Class Action Action	
DSCP	Profile class Phone Action	
Scheduling Algorithm	<< ipvo tranic class table is empty >>	
SNMP Access Control Config	Page 0/0 First Page Previous Page Next Page Last Page GC	
RMON		
E Security	~	
X		

3. 3 settings are shown

IPv6 Traffic Class Priority Se	ttings
State	[Selection]Enabled / Disabled selection.

IPv6 Traffic Class Settings	
IPv6 Traffic Class	[Variable]Input IPv6 traffic class(0-255)
Class ID	[Selection] Low / Medium / High / Highest

Review the settings. When you have completed making changes, click Apply to save the settings

4. IPv6 Traffic Class Table is shown.

2.4. SNMP

SNMP technology is help you sense an obstacle

2.4.1. Engine ID

This section explain how to change engine ID

- 1. Log into your switch management page.
- 2. Click SNMP, and click Engine ID.

← → Ø http://192.168.0.1/	오 - 오 🙋 Planex Switch	×			<u> </u>
PLanex COMM.	16Port	Gigabit Layer 2 Web	Smart PoE Switch	ı	
SWE-0216G3 SWE-0216G3 SWE-0216G3 Physical Interface SMMP Physical Interface SMMP SMMP Compared Interface SMMP Compared Interface Compared Interface SMMP User Outpared Compared Interface SMMP User Outpared Compared Interface SMMP User Outpared Compared Interface Statistic Chat Save Settings to Flash	SNMP Engine ID Settings SNMP Engine ID Settings Engine ID:	800003e8030022cfee5abd		Apply Reset Re	set to Default

3. 1 setting is shown

Engine ID Setting					
Engine ID	[Variable]Switch	Unique	Name	divide	another
	switch.				

2.4.2. View Table

This section explains how to specific MIB access optimizes and limitation.

- 1. Log into your switch management page.
- 2. Click SNMP, and click Engine ID.

						- <u>-</u>
2 nttp://192.168.0.1/	Press 🖉 Planex Switch	×				٦î
	16P	ort Gigabit Layer	2 Web Smart Po	E Switch		
SWE-0216G3	SNMP View Table					
SWE-0216G3	SNMP View Settings					î
Switch Info	View Name:		* (32 characters li	mit)		
Physical Interface	Subtree OID:		*			
SNMP	OID Mask:		*			
···· Engine ID	View Type:	included 🗸				
Group Access Table					Add Doso	+
Community Table	CNMD View Table				Add Nese	
Access Control Config	View Name	Subtree OID	OID Mask	View Type	Action	
RMON Voice VLAN	ReadWrite	1	1	Included	Delete	
Bewer Over Ethernet						
DHCP Snooping						
LLDP Statistic Chart						
Tools						
Gave Settings to Hash						
						~

3. 4 settings are shown

SNMP View Table	
View Name	[Variable]Switch Unique Name divide another
	switch.
Subtree OID	[Variable]Input OID of you want to add
OID Mask	[Variable]Input OID Mask of limitation of public
View Type	[Selection] included/excluded selection.

Review the settings. When you have completed making changes, click Apply to save the settings

4. SNMP View table is shown

2.4.3. Group Access Table

This section explains how to specific MIB access policy.

- 1. Log into your switch management page.
- 2. Click SNMP, and click Group Access table.

n PLanex		16Port	Gigabit Laver	2 Web Sma	rt PoE Swite	ch		
СОММ.		TOT OIL	orgabit Eayer	L Web Onla	ITT OL OWIG	211		
SWE-0216G3	SNMP Group	Access Table	е					
SWE-0216G3	SNIMD Crown Acc	occ Cottings						-1
Switch Info	SNMP Group Acc	less setungs		t (22 shared	in an time (A)			
Physical Interface	Group Name.			- (32 charac	ters limit)			
🗈 🝓 Bridge	Read View Name:			(32 character	's limit)			
E SNMP	Write View Name:			(32 character	's limit)			
View Table	Notify View Name:			(32 characters limit)				
Group Access Table	Security Model:		v1 🗸					
Community Table	Security Level:		NoAuthNoPriv 🗸					
Trap Management								5
RMON							Add Reset	-
Voice VLAN	SNMP Group Acc	ess Table						
Power Over Ethernet	Group Name	Read View	Write View	Notify View	Security Model	Security Level	Action	
DHCP Snooping	ReadOnly	ReadWrite		ReadWrite	v1	NoAuthNoPriv	Delete	
Generation Chart	ReadOnly	ReadWrite		ReadWrite	v2c	NoAuthNoPriv	Delete	
Tools	ReadWrite	ReadWrite	ReadWrite	ReadWrite	v1	NoAuthNoPriv	Delete	
Save Settings to Flash	ReadWrite	ReadWrite	ReadWrite	ReadWrite	v2c	NoAuthNoPriv	Delete	
	readivite	Readining	Redutine	Readyine	¥20	Normali Nor IIV	Delete	
								\sim

3. 6 settings are shown

SNMP Group Access Setting	S
Group Name	[Variable]Input Group of MIB access.
Read View	[Variable]Input object name of view acceptable
Write View	[Variable] Input object name of write acceptable
Notify View	[Variable] Input object name of trap acceptable
Security Model	[Selection]v1/v2c/v3 selection,
Security Level(v3 only)	[Selection]NoAuthNoPriv/AuthNoPriv/AuthPriv
	selection
	NoAuth : no password access
	NoPriv: no encrypted access

Review the settings. When you have completed making changes, click Apply to save the settings

4. SNMP Group Access Table is shown.

2.4.4. SNMP User/Group

This section explains how to specific MIB access users and groups.

- 1. Log into your switch management page.
- 2. Click SNMP, and click SNMP User/Group.

SWE-0216G3	SNMP User/Grou	p				
SWE-0216G3	SNMP User/Group Set	tinas				
Switch Info	User Name:	[* (32 characters limit)		
Physical Interface	Group Name:	ĺ		* (32 characters limit)		
E SNMP	SNMP Version:		v1 🗸	_ ·	ncrypted	
Engine ID	Auth-Protocol:		MD5 V	Paceword		
Group Access Table	Priv-Protocol:		DES Y	Pace		
SNMP User/Group	11111100001.		020 +	FdSS	word.	
Trap Management						Add Reset
Access Control Config	SNMP User/Group Tal	ole				
	User Name	Group Name	SNMP Version	Auth-Protocol	Priv-Protocol	Action
Security Dever Over Ethernet	ReadOnly	ReadOnly	v1	None	None	Delete
E DHCP Snooping	ReadOnly	ReadOnly	v2c	None	None	Delete
Generation Chart	ReadWrite	ReadWrite	v1	None	None	
Tools	ReadWrite	ReadWrite	v2c	None	None	Delete
Save Settings to Flash	Readvince	Readvince	V20	None	None	Delete

3. 5 settings are shown

SNMP User / Group Settings		
User Name	[Variable]Input add username.	
Group Name	[Variable]Input group of add or belong user	
SNMP Version	[Selection]v1 / v2c / v3 selection	
Encryption(v3)	[Check Box]enable encrypt and auth method	
Auth Protocol(encrypted)	[Variable] MD5/SHA1 selection	
Password	[Variable] Input password for authentication	
Priv Protocol(encrypted)	[SelectionInput password for encrypt	
Password(DES)	[Variable] Input password	

Review the settings. When you have completed making changes, click Apply to save the settings

4. SNMP User /Group Table is shown.

2.4.5. Community Table

This section explains how to specific MIB access Community Table.

- 1. Log into your switch management page.
- 2. Click SNMP, and click Community Table.

→ @ http://192.168.0.1/	Q - C Planex Switch	×	÷ *
	16Port G	Gigabit Layer 2 Web Smart PoE Switch	
	_		
SWE-0216G3	SNMP Community Table		<u>^</u>
SWE-0216G3	SNMP Community Settings		
E ■ System	Community Name:	* (32 characters limit)	
Physical Interface	User Name (View Policy):	* (32 characters limit)	
Engine ID			Add Reset
Group Access Table	SNMP View Table		
SNMP User/Group	Community Name	User Name(View Policy)	Action
Trap Management	private	ReadWrite	Delete
Access Control Config	public	ReadOnly	Delete
Voice VLAN Security Power Over Ethernet			
DHCP Snooping			
E Statistic Chart			
E Tools			
Save Settings to Flash			
			*

3. 2 settings are shown

SNMP Community Settings	
Community Name	[Variable]Input new Community Name
User Name(View Policy)	[Variable]Input username in use as View Policy

Review the settings. When you have completed making changes, click Apply to save the settings

4. SNMP View Table is shown.

2.4.6. Trap Management

This section explains how to specific trap host setting.

- 1. Log into your switch management page.
- 2. Click SNMP, and click Community Table.

→ 🖉 http://192.168.0.1/	♀ ヾ ♂ 🖉 Planex Switch	×		†
	16P	ort Gigabit Layer 2	Web Smart PoE Switch	
SWE-0216G3	Trap Management			^
SWE-0216G3	Trap Management Global Se	ettings		
E System	Trap:	Enabled O Disab	ed	
Physical Interface				Apply
SNMP	Add Hoct Table			тру
View Table	Aud Host Table		• IPv4	
SNMP User/Group	Host IP Address:		0 IPV6	
Community Table	SNMP Version:	v1 ~		
Access Control Config	Community Name/User Name:		* (32 characters limit)	
Gecurity Power Over Ethernet				Add Reset
DHCP Snooping	Trap Management Table			• 6
Statistic Chart	Host Ip Address	SNMP version	Community Name/User Name	Action
Tools	192.108.0.11	VI	public	Delete
				\sim

3. 1 setting is shown

SNMP Community Settings	
State	[Selection]Enabled/Disabled selection

Review the settings. When you have completed making changes, click Apply to save the settings

4. 3 settings are shown

Add Host Table	
Host IP Address	[Selection]Enabled/Disabled selection
SNMP Version	[Selection]v1 / v2c / v3-NoAuthNoPriv /
	v3-NoAuthPriv / v3-AuthPriv selection.
Community Name /	Input Community name or User name for trap user
User Name	belongs.

Review the settings. When you have completed making changes, click Apply to save the settings

5. Trap Management Table is shown.

2.5. Access Control Config

Access Control is help you different way traffic filtering or shaping

2.5.1. Policy Settings

This section explains you how to add filtering entry.

- 1. Log into your switch management page.
- 2. Click Access Control Config, and click Policy Settings.

← → Ø http://192.168.0.1/	P → C Ø Planex Switch ×	^ ^ ≯★ ♠
	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	Policy Settings	~
SWE-0216G3	Policy Type	
	Policy type: Add L2+IPv4 Add IPv6	
Physical Interface	Policy Table Delete	All
Access Control Config	Free Entries : 200 Total Entries : 0	
Rate Control Settings	Index Classifier Sequence Deny/Permit CoS DSCP Rate Control Port List Status Action	
E RMON	<< Policy table is empty >>	
Coice VLAN Security	Page 0/0 First Page Previous Page Next Page Last Page GO	
DHCP Snooping		
Tools		
		~

- 3. Add new policy
 - 1. Push AddL2+IPv4

Сомм.	16Port Gigabit Layer 2 Web Smart Po	oE Switch
SWE-0216G3	Policy type: Add L2+IPv4 Add IPv6	
SWE-0216G3	Policy Index: (1-65535)	
System Physical Interface	Source MAC Address:	: Mask Length: (1-48)
E Bridge	Destination MAC Address:	: Mask Length: (1-48)
	VLAN ID: (1-4094)	802.1p Priority: (0-7)
Policy Settings	Ether Type: 0x (0000-FFFF, ex: 0806; 0800)	
Policy Database	Protocol: (1-255)	
	IPv4 Source IP Address:	Mask Length: (1-32)
Gecurity Power Over Ethernet	IPv4 Destination IP Address:	Mask Length: (1-32)
DHCP Snooping	DSCP: (0-63)	
E Statistic Chart	Source Layer 4 Port: (1-65535)	Destination Layer 4 Port: (1-655:
Save Settings to Flash	Policy Sequence: (1 - 65535)	
	Policy Action: Permit V	
	Replaced-CoS: (0-7)	Rate Control Index: (1 - 655
	O Replaced-DSCP: (0-63)	
	Port List: (e.g. 1,3,5-8)	~
	<	>

23 settings are shown

Add L2+IPv4	
Policy Index	[Variable]Input index number.
Source MAC Address	[Variable]Input Source MAC address.
Mask Length	[Variable]Input Source MAC mask address
Destination MAC Address	[Variable]Input Destination MAC address.
Mask Length	[Variable]Input Destination MAC mask address
VLAN ID	[Variable]Input source VLAN ID
802.1p Priority	[Variable]Input 0-7 number.
Ether Type	[Variable]Input Ether Type in hex digit
Protocol	[Variable]Input protocol(e.g. IP is 5)
IPv4 Source IP Address	[Variable]Input source IP address
Mask Length	[Variable]Input source mask address
IPv4 Destination IP	[Variable]Input destination IP address
Address	
Mask Length	[Variable]Input destination mask address
DSCP	[Variable]Input DSCP number.
Source L4 Port	[Variable]Input source port number.
Destination L4 Port	[Variable]Input destination port number.
Policy Sequence	[Variable]Input process order
Policy Action	[Selection]Permit/Deny selection
Replaced-CoS	[Variable]Input CoS Value
Replaced-DSCP	[Variable]Input DSCP Value
Rate Control	[Variable]Input number of Rate Control entry
Port List	[Variable]Input port number which filter applied

2. Push IPv6

SWE-0216G3	Policy Settings			^
SWE-0216G3	Policy Type			
E System	Policy type:	Add L2+IPv4 Add IPv6		
Physical Interface Bridge	Policy Index:	(1-65535)		
SNMP Access Control Config	VLAN ID:	(1-4094)	802.1p Priority:	(0-7)
Policy Settings	Protocol:	(1-255)	L	
Policy Database	IPv6 Source IP Address:		Prefix Length:	(1-128)
RMON Voice VLAN	IPv6 Destination IP Address:		Prefix Length:	(1-128)
Security Rower Over Ethernet	IPv6 Traffic Class:	(0-255)	L	
DHCP Snooping	Source Layer 4 Port:	(1-65535)	Destination Layer 4 Port:	(1-65535)
E Statistic Chart	Policy Sequence:	(1 - 65535)		
Tools Save Settings to Flash	Policy Action:	Permit V		
	Replaced-CoS:	(0-7)	Rate Control Index:	(1 - 65535)
	Port List:	(e.g. 1,3,5-8	3)	
				Add Cancel
	Delicy Table			Delate All

16 settings are shown

Add IPv6	
Policy Index	[Variable]Input index number.
VLAN ID	[Variable]Input source VLAN ID
802.1p Priority	[Variable]Input 0-7 number.
Protocol	[Variable]Input protocol(e.g. IP is 5)
IPv6 Source IP Address	[Variable]Input source IP address
Mask Length	[Variable]Input source mask address
IPv6 Destination IP	[Variable]Input destination IP address
Address	
Mask Length	[Variable]Input destination mask address
IPv6 Traffic Class	[Variable]Input IPv6 traffic class number.
Source L4 Port	[Variable]Input source port number.
Destination L4 Port	[Variable]Input destination port number.
Policy Sequence	[Variable]Input process order
Policy Action	[Selection]Permit/Deny selection
Replaced-CoS	[Variable]Input CoS Value
Rate Control	[Variable]Input number of Rate Control entry
Port List	[Variable]Input port number which filter applied

4. Policy Table is shown

Review the settings. If you want to delete or modify entry, push Delete or Modify button.

2.5.2. Rate Control Settings

This section explains how to add rate limit policy. This policy is used in Policy Settings.

- 1. Log into your switch management page.
- 2. Click Access Control Config, and click Rate Control settings.

→ Ø http://192.168.0.1/	ည် 🖉 Planex Switch	×		† 7
	16Po	rt Gigabit Layer 2 Web Smart P	oE Switch	
SWE-0216G3	Rate Control Settings			
SWE-0216G3	Rate Control Settings			
	Index:	(1-65535)		
Physical Interface	Committed Rate:	64kbps x (1-15625)		
				Add
Policy Settings	Data Control Table			
Rate Control Settings Policy Database	Free Entries : 240			Delete All
	Total Entries : 0			
E Security	Index	Committed Rate	Action	
Power Over Ethernet DHCP Snooping		<< Rate Control table is empty		
Chart	Page 0/0 First	st Page Previous Page Next Page	Last Page GO	
Tools Save Settings to Elach				
Save Settings to Flash				
				~
		dkdbgegngjg		

3. 2 setting are shown

Rate Control Settings	
Index	[Variable]Input index number
Committed Rate	[Variable]Input committed speed rate with multiple
	64kbps.

Review the settings. When you have completed making changes, click Add to save the settings

4. Rate Control List is shown

Review the settings. If you want to delete or change entry, push Delete or Apply button.

2.5.3. Policy Database

This section explains how to check filter policy for each port

- 1. Log into your switch management page.
- 2. Click Access Control Config, and click Policy Database.

(←) → Ø http://192.168.0.1/	오 - ㅎ 🙋 Planex Switch	×		↑ ★ ☆
PLANEX COMM	16Pc	ort Gigabit Layer 2 Web Smart Po	E Switch	
	(31)			
SWE-0216G3	Policy Database			^
Switch Info	Policy Database Select			
System Physical Interface	Select Port:	Any V		
Bridge	Sort By:	Index Sequence		
III · · · IIII SNMP III · · · · · · · · · · · · · · · · · ·	Policy Table			
Policy Settings	Policy Index	Sequence	Policy Info	
Policy Database	1	1	Detail	
Gecurity Power Over Ethernet				
DHCP Snooping				
Tools Save Settings to Flash				
				\sim
(L				

3. 2 settings are shown

Policy Database Select	
Port	[Selection]Any / 1-16 port selection
Sort By	[Selection]List up Index / Sequence order
	selection

4. Policy Table is shown

If you want to check more detail, push Detail button.
2.6. RMON

RMON technology help you Remote Network Monitoring about link path.

2.6.1. Global Settings

This section explains how to enable RMON.

- 1. Log into your switch management page.
- 2. Click RMON, and click Global Settings.

			_ _ ×
(←)	오 - ৫ 🖉 Planex Switch	×	<u></u>
	16Port	Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 System Physical Interface Single SMMP Coloral Settings SMMP Coloral Settings Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistic Chart Color Statistic Chart Statistic Chart Statistic Chart Statistic Chart Statistic Chart Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic Statistic S	RMON Basic Settings RMON Global Settings RMON Status	Disabled V	Apply
3. 1 setting	g is shown		

Policy Database Select	
RMON Status	[Selection]Enabled / Disabled selection

2.6.2. Statistics

This section explains how to add track point for each port

- 1. Log into your switch management page.
- 2. Click RMON, and click Statistics.

Provide Hutp://192.168.0.1/ Port Cigabit Layer 2 Web Smart PoE Switch IdPort Gigabit Layer 2 Web Smart PoE Switch Idex IdPort Gigabit Layer 2 Web Smart PoE Switch Idex IdPort Gigabit Layer 2 Web Smart PoE Switch Idex IdPort Statistics Settings Idex Idex IdPort Statistics Settings Idex Port Idex I									
SWE-021603 SWE-021603 Swearbal System	→ 🥖 http://192.168.0.1/	Q	- C 🥖 Planex Swit	ch ×					<u></u>
SWE-021603 SWE-021603 Switch Info System System System <td>n Planex</td> <td></td> <td>16</td> <td>Port Gigab</td> <td>it Lavor 2</td> <td>Web Smart Po</td> <td>E Switch</td> <td></td> <td></td>	n Planex		16	Port Gigab	it Lavor 2	Web Smart Po	E Switch		
SWE-0216G3 SWE-0216G3 System System Provision Indrace System System <t< td=""><td>Сомм.</td><td></td><td>10</td><td>Fort Organ</td><td>Layer Z</td><td>Web Smart Fo</td><td>E Switch</td><td></td><td></td></t<>	Сомм.		10	Fort Organ	Layer Z	Web Smart Fo	E Switch		
SWE-0216G3 • System • Physical Interface • Biolog • SNUP • Code Settings • Statistics • Statistic Chatt • Ovice VLAN • Statistic Chatt • Statistic Chatter • Statisti									
SWE-0216G3 SWE-0216G3 Switch Info System Physical Infarce Statistics Statistics <									
SWE-021603 SWE-021603 SWE-021603 SWE-021603 Physical Infarce Bindige Cover SNMP Cover Cilobal Settings Statistics Statistic Crait	SWE-0216G3	Ether	net Statistics S	Settings					
Switch Info By System Physical Interace By Social Statistice Clobal Settings Owner Clobal Settings Clobal Settings Clobal Settings Clobal Settings Clobal Settings Owner Clobal Settings Owner Clobal Settings Owner Clobal Settings Othory Prover Power Over Ethernet Power Over Ethernet Page 1/1 First Page Previous Page Next Page Page Clobal Settings to Flash	SWE-0216G3	Etherne	et Statistics Setting	15					
Port:	Switch Info	Index:			* (1-6553	5)			
Owner: (32 characters limit) Access Control Control Control	Physical Interface	Port:				*			
Access Control Contig → Access Control Contig → Global Settings → History → Attristics Table → History → Attristics Table → History → Attristics Table ↓ Voice VLAN ⊕ Security → Power Over Ethernet ⊕ Over Over Chernet ⊕ Over Ov	E SNMP	Owner:				(32 characters limit)			
Global Settings Statistics Statistics Add Reset Alarms Alarms Alarms Alarms Alarms Cobel Statistics Table Index Port Drop Events Octets Packets Broadcast Packets Multicast Packets Owner Action Power Over Ethernet Power Over Ethernet Page 1/1 First Page Previous Page Next Page Last Page Page Go Page 1/1 First Page Previous Page Next Page Last Page Page Go Save Settings to Flash	Access Control Config Grad Con								
Index Port Drop Events Octets Packets Broadcast Packets Multicast Packets Owner Action Image: Margin and Stress Content and Stre	Global Settings								Add Reset
Index Port Drop Events Octets Packets Broadcast Packets Multicast Packets Owner Action 1 16 0 157067 1492 8 32 public Delete Power Over Ethernet 0 157067 1492 8 32 public Delete Packet Sacurity Packet Sacurity Packet Sacurity Packet Sacurity Rege Next Page Last Page Page GO Call DP Statistic Chart Statistic Chart Packet Sacurity Previous Page Next Page Last Page Page GO Save Settings to Flash Save Settings to Flash Sature Sacurity Satur	History	Etherne	et Statistics Table						
to be wrant by the security and the sec	Alarms	Index	Port Drop Events	Octets	Packets	Broadcast Packets	Multicast Packets	Owner	Action
B Security Power Over Ethernet DHCP Snooping Statistic Chart B Statistic Chart B Statistic Chart B Statistic Start B St	Voice VLAN	1	16 0	157067	1492	8	32	public	Delete
B) B) DHCP Snooping Page I/1 First Page Previous Page Next Page Last Page Page GO B Statistic Chart B ■ Tools Save Settings to Flash	Power Over Ethernet		Dama 4/4	51.10			Dese		
Batalistic Chart ∰ Tools └── Save Settings to Flash	DHCP Snooping		Page 1/1	First Page	Previous Pa	age Next Page	Last Page Page	GO	
e: ■ Tools └─	E Statistic Chart								
	E								

3. 3 settings are shown

Ethernet Statistics Settings	
Index	[Variable]Input track entry number
Port	[Variable] Input one port number.(1-16)
Owner	[Variable]Input entry nickname.

Review the settings. When you have completed making changes, click Add to save the settings

4. Ethernet Statistics Table is shown.

2.6.3. History

This section explains how to configure logging parameter.

- 1. Log into your switch management page.
- 2. Click RMON, and click History.

Attp://192.168.0.1/	، م	C 🤗 Pla	nex Switch ×				
			16Port Gigabit	Laver 2 Web Smart Po	E Switch		
COMM.			· · · · · · · · · · · · · · · · · · ·	,			
		_					
SWE-0216G3	Histor	y Contro	l Settings				
SWE-0216G3	History (Control Set	ttings				
⊕ · · · · · · · · · · · · · · · · · · ·	Index:			* (1-65535)			
Physical Interface	Port:			*			
E SNMP	Buckets Re	equested:		(1-50)			
Access Control Config	Interval:			(1-3600 secs)			
Global Settings	Owner:			(32 characters limit)			
Staticstics							
Alarms							Add Reset
Event	History (Control Tal	ble				Delete All
E Security	Index	Port	Buckets Requested	Buckets Granted	Interval	Owner	Action
Power Over Ethernet	1	16	1	1	5	public	Delete
		Pa	ne 1/1 First Page	Previous Page Next Page	Last Page	Page GO	
Tools		1.0	go in That age	richousi age mexil age	Lastrage		
Save Settings to Flash							

3. 5 settings are shown

History Control Table	
Index	[Variable]Input entry number
Port	[Variable]Input one port number.(1-16)
Buckets Requested	[Variable]Input number of revision history.
Interval	[Variable]Input cycle time for logging
Owner	[Variable]Input entry nickname.

Review the settings. When you have completed making changes, click Add to save the settings

4. History Control Table is shown.

2.6.4. Alarms

This section explains how to configure Alarm threshold

- 1. Log into your switch management page.
- 2. Click RMON, and click Alarms.

	105		
Сомм.	16P0	rt Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	RMON Alarm Settings		^
SWE-0216G3	RMON Alarm Settings		
E System	Index:	* (1-65535)	
Physical Interface	Interval:	(1-2^31-1 secs)	
E SNMP	Variable:	A	
Access Control Config Green RMON	Sample type:	Absolute value V	
Global Settings	Rising Threshold:	* (0-2^31-1)	
History	Falling Threshold:	* (0-2^31-1)	
Alarms	Rising Event Index:	(1-65535)	
	Falling Event Index:	(1-65535)	
Gecurity Power Over Ethernet	Owner:	(32 characters limit)	
DHCP Snooping			Add Depat
E Statistic Chart			Adu Reset
Tools Save Settings to Flash	RMON Alarm Table		Delete All
	Total Entries : 0		
	Index Interval Variable Sample Ty	ype Rising Threshold Falling Threshold Rising Event Index Falling Event In	ndex Owner Action
		<< Table is empty >>	
	Page 0/0 Firs	t Page Previous Page Next Page Last Page Page	GO

3. 9 settings are shown

RMON Alarm Table	
Index	[Variable]Input entry number
Interval	[Variable]Input cycle time for logging
Variable	[Variable]Input variable of RMON MIB object
Sample type	[Selection]Absolute / Delta Value
	Absolute : check current value.
	Delta : check between amount of change from last
	interval sampling
Rising threshold	[Variable]Input value as upper level.
Falling threshold	[Variable]Input value as lower level.
Rising Event Index	[Variable]Input index number of Event(2.6.5)
Falling Event Index	[Variable]Input index number of Event(2.6.5)
Owner	[Variable]Input entry nickname.

Review the settings. When you have completed making changes, click Add to save the settings

4. History Control Table is shown.

2.6.5. Event

This section explains how to configure fire event.

- 1. Log into your switch management page.
- 2. Click RMON, and click Alarms.

SWE-0216G3	RMON	Event Sett	ings				
Switch Info	RMON E	ent Settings			(55525)		
System Physical Interface	Index:			^ (1-	(22 characters	limit)	
E Bridge	Type:			Nana	" (32 characters	mmu)	
Access Control Config	rype:			None	×		
E FRON	Community						
Staticstics	Owner:				(32 characters li	mit)	
History							Add Reset
Event	RMON E	vent Table					Delete All
Oice VLAN Security	Free Entries Total Entries	: 255 5 : 1					
Power Over Ethernet DHCP Snooping	Index	Description	Туре	Community	Owner	Last Time Sent	Action
Chart	1	2222	Log	private	ReadWrite	0 days 02h:48m:02s	Delete
Tools		Page 1	/1 First	Page Previo	us Page Next Pag	e Last Page G	0

3. 5 settings are shown

RMON Event Table	
Index	[Variable]Input check entry number
Description	[Variable]Input timer nickname
Туре	[Selection]None / Log /SNMP Trap / Log and Trap
	selection.
Community	[Variable]Input community for describe trap
Owner	[Variable]Input entry nickname.

Review the settings. When you have completed making changes, click Add to save the settings

4. History Control Table is shown.

2.7. Voice VLAN

Voice VLAN functions help you optimize IP Phone network. It works by using IP phone MAC address, and make Voice VLAN network, change CoS, and add VLAN dynamically.

2.7.1. Voice VLAN Settings

This section explains how to configure Voice VLAN Setting

- 1. Log into your switch management page.
- 2. Click Voice VLAN, and click Voice VLAN Setting.

C http://102.150.0.1/		0.11			
C Inttp://192.108.0.1/		ex switch ×			
		16Port Gigabit Layer 2	Web Smart PoE Switch		
SWE-0216G3	Voice VLAN Set	tings			~
SWE-0216G3	Voice VLAN Status				
	Voice VLAN:	Enabled Disable	d		
Physical Interface		Note: Disabling will turn off the	function and return all values to defa	ult.	
🗄 📹 SNMP 🕀 📹 Access Control Config	Voice VLAN Global S	Settings			
RMON	VLAN ID:	50 ~			
Voice VLAN	Aging Time:	1	(1-120 hours)		
Voice VLAN OUI Settings	CoS:	7 🗸			
Power Over Ethernet				Ap	ply
	Voice VI AN Table				
Statistic Chart	Port	Auto Detection	Status	Action	
Save Settings to Flash	All	Ignore 🗸		Apply	
	1	Disabled V	Static	Apply	
	2	Enabled 🗸	None	Apply	
	3	Enabled V	None	Apply	
	4	Enabled 🗸	None	Apply	
	5	Enabled 🗸	None	Apply	~

3. 4 settings are shown

Voice VLAN Status	
Voice VLAN	[Selection]Enabled / Disabled selection

Voice VLAN Global Settings	
VLAN ID	[Selection]Select Voice VLAN ID
Aging Time	[Variable]Input cycle time for IP Phone MAC table
	rebuild.
CoS	[Selection]Select 0-7 CoS value.

Review the settings. When you have completed making changes, click Apply to save the settings

4. Voice VLAN Table is shown.

Voice VLAN table	
Port	[Fixed]All / 1-16 port are listed up

Auto Detection	[Selection]Select Enabled / Disabled
Status	[Fixed]Static / None / Dynamic shown.

If you want to modify entry, push Apply button on each entry.

2.7.2. Voice VLAN OUI Settings

This section explains how to add MAC list

- 1. Log into your switch management page.
- 2. Click Voice VLAN, and click Voice VLAN OUI Setting.

→ 🥖 http://192.168.0.1/	S ≎ + Q	Planex Switch	×		<u>,</u>
PLANEX		16Port	Gigabit Layer 2 Web S	Smart PoE Switch	
SWE-0216G3	Voice VLAN	OUI Settings			~
SWE-0216G3	Voice VLAN OU	Settings			
		Description	Telephony OUI		
Physical Interface	User defined OUI:				(XX:XX:XX:XX:XX:XX)
Access Control Config	Note: 10 maximum	user defined OUI a	allowed.		Add
E-WON	Voice VLAN OU	Table			
Voice VLAN Settings	Free Policies: 198	Description	Telephony OIII	OIII Mask	Action
Security Power Over Ethernet	10	Decemption	< < Voice VLAN OUI L	ist is empty > >	, loudin
DHCP Snooping					
Statistic Chart					
Save Settings to Flash					
					\sim

3. 2 settings are shown

Voice VLAN OUI Settings	
Description	[Variable]Input entry Nickname.
Telephony OUI	[Variable]Input whole of MAC address. But you use
	same manufacture IP Phone, It is not necessary to
	input MAC address after the second unit.

Review the settings. When you have completed making changes, click Add to save the settings

4. Voice VLAN Table is shown.

2.8. Security

This section explains you how to Port-base security

2.8.1. Port Access Control

This section explains how to configure IEEE802.1X

- 1. Log into your switch management page.
- 2. Click Security, and click Port Access Control.

(→) 🥝 http://192.168.0.1/	오 - ৫ 🏉 Planex Switch	×			† ★
	16P0	ort Gigabit Layer 2	Web Smart PoE	Switch	
SWE-0216G3	Port Access Control Se	ttings			~
SWE-0216G3	Port Access Control Settings				
	NAS ID:	fsNas1	(16 characters max)		
Physical Interface	Port Access Control:	Disabled 🗸			
SNMP	Authentication Method:	Local 🗸			
Access Control Config RMON				Apply Settings Configuration S	tatus
Voice VLAN				Apply Settings Configuration C	tutus
Port Access Control					
TACACS+					
Denial of Service					
E DHCP Snooping					
Chart					
Tools					
Save Settings to Flash					
					\sim

3. 3 settings are shown

Port Access Control Settings	
NAS ID	[Variable]Input name used for 802.1x identifier.
Port Access Control	[Selection]Enabled / Disabled selection
Authentication Method	[Selection]Local(Dial-in) / RADIUS / TACACS+
	selection.

2.8.2. Dial-in User

This section explains how to setup ID/PASSWORD authentication. It helps you authenticate system without external server.

- 1. Log into your switch management page.
- 2. Click Security, and click Dial-in User.

← → 🥙 http://192.168.0.1/	စ → ငံ 🦉 Planex Switch	×		<u>↑</u> ★3
	16Port G	igabit Layer 2 Web Smart	PoE Switch	
	(
SWE-0216G3	Dial-In User			
SWE-0216G3	Dial-In User Settings			
	User Name:	(Maximum len	gth is 23)	
Physical Interface	Password:	(23 characters r	nax)	
	Dynamic VLAN:	(1-4094)		
Access Control Config				
				Add
E Security	Dial-In User Table			Delete All
Dial-in User	Free Entries : 64			
RADIUS	Total Entries : 0	Dateword	Dynamic VI AN	Action
Destination MAC Filter	Usemane	Password		Action
Denial of Service			Jly	
DHCP Snooping	Page 0/0 First Pa	ge Previous Page Next Pa	ge Last Page Page	GO
Tools				
Save Settings to Flash				

3. 3 settings are shown

Dial-in User Settings	
User Name	[Variable]Input user name
Password	[Variable]Input user password
Dynamic VLAN	[Variable]Input VLAN ID after login

Review the settings. When you have completed making changes, click Apply to save the settings

4. Dial-in User Table is shown.

If change password or VLAN, click Modify. If delete entry, click Delete.

2.8.3. RADIUS

This section explains how to setup RADIUS authentication. You need external authenticate server.

- 1. Log into your switch management page.
- 2. Click Security, and click RADIUS.

→ A http://192.168.0.1/	္ P → C 🖉 Planex	Switch ×				÷
		16Port Gigabit L	ayer 2 Web Sn	nart PoE Switc	h	
SWE-0216G3	RADIUS					^
SWE-0216G3	RADIUS Settings					
Switch Info	Server Priority:	1 🗸 (Highe	st :1, Lowest :5)			
Physical Interface Bridge SNMP	Server IP Address:	0.	. 0 .	0 • IPv4		
Access Control Config	Server Port:	1812	(1-65535)		
Voice VLAN	Accounting Port:	1813	(1-65535)		
Port Access Control	Shared Secret:		(32 chara	cters limit)		
Dial-in User ADIUS TACACS+						Add
Destination MAC Filter	RADIUS Table					
Denial of Service	Server Priority	Server IP Address	Server Port	Accounting Port	Shared Secret	Action
DHCP Snooping		<	< Radius list is en	npty > >		
Statistic Chart Tools						
Save Settings to Flash						
						\sim

3. 5 settings are shown

RADIUS Settings	
Server Priority	[Selection]1-5 priority selection
Server IP Address	[Variable]Input server IP address
Server Port	[Variable]Input port number of RADIUS server
Accounting Port	[Variable]Input port number of Accounting
Shared Secret	[Variable]Input secret key

Review the settings. When you have completed making changes, click Apply to save the settings

4. RADIUS Table is shown.

If you change IP address and so on, click Modify. If delete entry, click Delete.

2.8.4. TACACS+

This section explains how to setup TACACS+ authentication. You need external authenticate server.

- 1. Log into your switch management page.
- 2. Click Security, and click TACACS+.

1, Lowest 5) , 0 0 0 IPv4 0 IPv6 (1-65535) (1-255secs)	
1, Lowest 5) 0.000 @ IPv4 0 IPv6 (1-65535) (1-255secs)	
0 0 0 0 Pv4	
(1-65535) (1-255secs)	
(1-65535) (1-255secs)	
(1-255secs)	
(32 characters limit)	
	Add
Server Port Timeout Shared	Shared Secret Action
Server Port Timeout Shared ACACS+ list is empty > >	Shared Secret Action
ACACS+ list is empty > >	Shared Secret Action
	(32 characters limit)

3. 5 settings are shown

TACACS+ Settings	
Server Priority	[Selection]1-5 priority selection
Server IP Address	[Variable]Input server IP address
Server Port	[Variable]Input port number of RADIUS server
Timeout	[Variable]Input wait time for timeout
Shared Secret	[Variable]Input secret key

Review the settings. When you have completed making changes, click Apply to save the settings

4. TACACS+ Table is shown.

If you change IP address and so on, click Modify. If delete entry, click Delete.

2.8.5. Destination MAC Filter

This section explains how to setup prohibition connection MAC address. You can make drop in-house server connection via GUEST user switch.

- 1. Log into your switch management page.
- 2. Click Security, and click Destination MAC Filter.

← → Ø http://192.168.0.1/	P → C 愛 Planex Switch ×	↑ ★ ‡
PLANEX COMM.	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	Destination MAC Filter	
Switch Info	Add Destination MAC Filter	
System Physical Interface	MAC Address :	
Bridge		Add
	Destination MAC Table	lete All
	Free Entries : 200 Total Entries : 0	
Security Port Access Control	MAC Address Action	
Dial-in User	< < Destination MAC Filter is empty > >	
	Note: The maximum Destination MAC Filter entries is 40.	
Denial of Service	Page 0/0 First Page Previous Page Next Page Last Page GO	
Power Over Ethernet DHCP Snooping		
ELDP		
Tools		
Save Settings to Plash		

3. 1 setting is shown

Add Destination MAC Filter	
MAC Address	[Variable]Input prohibited connection MAC address.

Review the settings. When you have completed making changes, click Add to save the settings

4. Destination MAC Table is shown.

Review the settings. If you want to delete entry, click Delete.

2.8.6. Denial of Service

This section explains you how to avoid Denial of Service attack. You can block doubtful communication at edge.

- 1. Log into your switch management page.
- 2. Click Security, and click Denial of Service.

	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	Denial of Service	
SWE-0216G3	DoS Setting	
System	TCP SYN packets with data	Allow 🗸
Physical Interface	TCP Null Scan: TCP flag bits are zero	Allow 🗸
SNMP	TCP over MAC Multicast / Broadcast	Allow 🗸
Access Control Config	TCP Flags with FIN-URG-PSH	Allow 🗸
Voice VLAN	TCP Flags with SYN-RST	Allow 🗸
Port Access Control	TCP/UDP port is zero	Allow 🗸
Dial-in User	Fragmented ICMP v4	Allow 🗸
TACACS+	ARP MAC SA Mismatch (Src-MAC and Sender MAC of ARP Payload)	Allow 🗸
Destination MAC Filter Dential of Service Power Over Ethernet Def Service DHCP Snooping DLOP Snooping LDP Statistic Chart Save Settings to Flash	Apply Resat to Default	

3. 8 settings are shown

DoS Setting					
TCP SYN packet with data	[Selection]Allow / Deny selection.				
TCP Null Scan TCP flag bits	[Selection]Allow / Deny selection.				
are zero					
TCP over	[Selection]Allow / Deny selection.				
Multicast/Broadcast					
TCP Flags with	[Selection]Allow / Deny selection.				
FIN-URG-PSH					
TCP Flags with SYN-RST	[Selection]Allow / Deny selection.				
TCP/UDP port is zero	[Selection]Allow / Deny selection.				
Fragmented ICMP v4	[Selection]Allow / Deny selection.				
ARP MAC SA Mismatch	[Selection]Allow / Deny selection.				
(Src-MAC and Sender MAC					
of ARP Payload)					

2.9. Power Over Ethernet

This section explains you how to check PoE Current Status.

- 1. Log into your switch management page.
- 2. Click power Over Ethernet.

→	Q	👻 🖒 🏉 Planex Sw	itch ×							î
		1	6Port Gigabit La	yer 2 W	/eb Smart	PoE Swit	ch			
SWE-0216G3	Powe	er Over Ethern	et							
SWE-0216G3	Power	Over Ethernet Set	tings							
E System	Power Bu	udget:	185 W							77
Physical Interface	Power Co	onsumption:	0 W							
		0 FIL 17 I								-
Access Control Config RMON	Power	Admin	Status	Class	Priority	Power (mW)	Voltage (V)	Current (mA)	Action	
Oice VLAN Security	All		-	-	lanore V	-	-	-	Apply	
Power Over Ethernet	1	Enabled V	POWER OFF	N/A	Low V	0	0	0	Apply	
	2	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
Statistic Chart Tools	3	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
Save Settings to Flash	4	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
	5	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
	6	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
	7	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
	8	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
	9	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	
	10	Enabled V	POWER OFF	N/A	Low 🗸	0	0	0	Apply	`

3. 10 settings are shown

Power Over Ethernet Settings			
Power Budget [Fixed]Maximum Power supply			
Power Consumption	[Fixed]Current Power supply		

Power Over Ethernet table	
Port	[Fixed]All / 1-16 ports are listed up
Admin	[Selection]Enabled / Disabled selection
Status	[Fixed]PD device status shown.
Class	[Fixed]PD device class is shown.
Priority	[Selection]Select Power Supply Priority
	Critical : guarantee power supply before another
	priority setting ports
	High : Power supply is starting after all critical
	priority setting port receiving power
	Low : Power supply is starting after another priority
	setting port receiving power
	IF same priority, minimum port get priority

Power(mW)	[Fixed]Current supply Watt level
Voltage(V)	[Fixed]Current supply Voltage
Current(mA)	[Fixed]Current supply electric current

2.10. DHCP Snooping

DHCP Snooping technology help you support smart routing, avoid unauthorized device.

2.10.1. General Settings

This section explains you how to setup DHCP Snooping.

- 1. Log into your switch management page.
- 2. Click DHCP Snooping, and click General Settings.

→ Attp://192.168.0.1/	P - C _ @ Planex Switch	×		<u> </u>
Сомм.	16P	ort Gigabit Layer	2 Web Smart PoE Switch	
SWE-0216G3	General Settings			
SWE-0216G3	DHCP Global Settings			
E System	DHCP Snooping:	O Enabled 🖲 Disa	bled	
Physical Interface				
E SNMP	General Settings			
Access Control Config	Pass Through Option 82:	Disabled 🗸		
Conce VLAN	Verify MAC Address:	Enabled 🗸		
E Curity	Backup Database:	Disabled 🗸		
Power Over Ethernet	Database Update Interval:	1200	(600-86400)(Sec)	
General Settings	DHCP Option 82 Insertion:	Disabled V		
VLAN Settings				
Binding Database				Apply
E Chart				
E Tools				
Save Settings to Flash				

3. 6 settings are shown

DHCP Global Settings	
DHCP Snooping	[Selection]Enabled / Disabled selection.

General Settings	
Pass Through Option 82	[Selection]Enabled / Disabled selection.
Verify MAC Address	[Selection]Enabled / Disabled selection.
	Enabled : Following DHCP binding table, ARP packet
	is forwarded from valid source.
	Disabled : Altanate.
Backup Database	[Selection]Enabled / Disabled selection.
Database Update Interval	[Variable]Input cycle time for backup DHCP
	database to flash
DHCP Option 82 Insertion	[Selection]Enabled / Disabled selection.

2.10.2. VLAN Settings

This section explains you how to setup VLAN Settings.

- 1. Log into your switch management page.
- 2. Click DHCP Snooping, and click VLAN Settings.

← → Ø http://192.168.0.1/			<u>+</u> ★ ☆
	16Port Gigabi	t Layer 2 Web Smart PoE Switch	
SWE-0216G3	VLAN Settings		
Switch Info	VLAN Settings		
Physical Interface	VLAN ID:	(1-4094)	
⊞∰ Bridge ⊨∰ SNMP			Add Reset
Access Control Config	VLAN Table		Delete All
	VLAN ID	Action	
		<< VLAN Settings is empty >>	
	Page 0/0 First Page	Previous Page Next Page GO	

3. 1 setting is shown

VLAN Settings	
VLAN ID	[Variable]Input VLAN ID.

Review the settings. When you have completed making changes, click Add to save the settings

4. VLAN ID Table is shown.

Review the settings. If you want to delete entry, click Delete.

2.10.3. Trusted Interfaces

This section explains you how to setup Trusted Interfaces, You can limit DHCP server port. And reject another un-trust DHCP server and PC non-enroll in DHCP server.

- 1. Log into your switch management page.
- 2. Click DHCP Snooping, and click Trusted Interfaces.

http://192.168.0.1/	の - C 🦉 Planex Switc	h ×		ħ
PLanex	16	Port Gigabit Laver 2 Web Smart	PoE Switch	
COMINE				
SWE-0216G3	Trusted Interfaces			^
SWE-0216G3	Trusted Interfaces Setting	5		
E System	Port	Trust	Action	
Physical Interface	All	Ignore V	Apply	
	1	Enabled V	Apply	
Access Control Config)	Enabled X	Apply	
	2			
Security	3	Enabled	Арріу	
E DHCP Snooping	4	Enabled V	Apply	
General Settings	5	Enabled V	Apply	
Trusted Interfaces	6	Enabled V	Apply	
Binding Database	7	Enabled V	Apply	
Statistic Chart	8	Enabled V	Apply	
Tools	9	Enabled ×	Apply	
Save Settings to Flash	10	Enabled M	Apply	
	10		Афру	_
	11	Enabled V	Apply	
	12	Enabled V	Apply	
	13	Enabled V	Apply	~

3. 8 settings are shown

Trusted Interfaces Settings	
Port	[Fixed]All /1-16 ports are listed up.
Trust	[Selection]Enabled / Disabled selection
	Trust port : Server(DHCP, Gateway, Web etc.)
	Untrust port : User PC, Non-user port

2.10.4. Binding Database

This section explains you how to setup Binding Database.

- 1. Log into your switch management page.
- 2. Click DHCP Snooping, and click Binding Database.

PLANEX COMM.		l6Port Gigabi					
			t Layer 2 Web S	mart PoE \$	Switch		
SWE-0216G3	Binding Database						
SWE-0216G3	Binding Database Settir	as					
Switch Info	MAC Address :	.5-				(e.g. 00:11:ab;cd)	ef 22)
Physical Interface	IP Address :]0	IPv4		,
Access Control Config	VLAN :		(1-409	34)			
E Voice VLAN	Port :	1 ¥					
Security	Ture :	1 +					
Power Over Ethernet DHCP Snooping	Type :	Static	~				
General Settings	Lease Time :		(10 - 4	1294967295)(Sec)			
VLAN Settings					Add Rese	t Clear Dynamic	And Learning
	Binding Database Table						Delete All
E Statistic Chart	Free Entries : 199						
Tools Save Settings to Elash	Total Entries : 0						
ave octaings to Hash	MAC Address	VLAN ID	IP Address	Port	Туре	Lease Time	Action
			<< The List is e	empty >>			
	Page 0/	0 First Page	Previous Page	Next Page	Last Page	GO	

3. 6 settings are shown

Binding Database Settings	
MAC Address	[Variable]Input MAC address.
IP Address	[Variable]Input IP address match MAC address
VLAN	[Variable]Input VLANA ID
Port	[Selection]1-16port
Туре	[Selection]Static /Dynamic selection
Lease Time (Dynamic)	[Variable]Input DHCP lease time.

Review the settings. When you have completed making changes, click Add to save the settings

4. Binding Database Table is shown.

Review the settings. If you want to delete entry, click Delete.

2.11. LLDP

LLDP technology help you notice port-base device link.path and switch topology

2.11.1. LLDP Global Settings

This section explains you how to setup Binding Database.

- 1. Log into your switch management page.
- 2. Click LLDP, and click LLDP Global Settings.

<i>ittp://192.168.0.1/</i>	の - C 🖉 Planex Switch	×		1
n Planex	16Por	t Gigabit Laver 2	Web Smart PoF Switch	
СОММ.	101 01			
SWE-0216G3	LLDP Global Settings			
SWE-0216G3	LLDP Global Settings			
System	LLDP	O Enabled	abled	
Physical Interface				Apply
SNMP				орру
RMON	LLDP Settings			
Voice VLAN	Message TX Hold Multiplier	4	(2-10)	
- Bower Over Ethernet	Message TX Interval		sec. (5-32768)	
DHCP Snooping	LLDP Reinit Delay	2	sec. (1-10)	
LLDP Global Settings	LLDP TX Delay	2	sec. (1-8192)	
LLDP Neighbors Information	Note : (LLDP TX Delay) <= (0.25* (M	lessage TX Interval)) and	(Message TX Interval) * (Message TX Hold Multiplier) < 65	535. Apply
Tools	LLDP System Information			
. Save Settings to Flash	Chassis ID Subtype:	macAddress		
	Chassis ID:	00:22:CF:EE:5A:BD		
	System Name:			
	System Description:	SWE-0216G3		
	LLDP Port State Settings	State	A -41	
	PUIL	State	Action	

3. 9 settings are shown

LLDP Global Settings	
LLDP	[Selection]Enabled/Disabled selection

LLDP Settings	
Message TX Hold Multiplier	[Variable]Input multiplier for TTL.
Message TX Interval	[Variable]Input cycle time for advertise.
LLDP Reinit Delay	[Variable]Input timeout for reinitialize
LLDP TX Delay	[Variable]Input delay time for change state.

LLDP System Informations	
Chassis ID Subtype	[Fixed]Always,"macAdress" is shown
Chassis ID	[Fixed]Always, MAC address is shown
System Name	[Fixed]System name is shown
System Description	[Fixed]Always, model name is shown

Review the settings. When you have completed making changes, click Apply to

save the settings

4. LLDP Port State Table is shown.

Review the settings. If you want to delete entry, click Delete.

2.11.2. LLDP Neighbors information

This section explains you how to check neighbor devices via LLDP.

- 1. Log into your switch management page.
- 2. Click LLDP, and click LLDP Neighbors information

← → Ø http://192.168.0.1/	,	×		<u>+</u> ★ ☆
PLANEX COMM.	16Port G	Gigabit Layer 2 Web Smart P	PoE Switch	
SWE-0216G3	LLDP Neighbors Information	on		
SWE-0216G3	LLDP Neighbors Information			
System Physical Interface	Entity Port Chassis ID Subtype	Chassis ID Port ID Subtype	Port ID Port Description	Show Detail
	Page 0/0 First Pa	age Previous Page Next Page	Last Page GO	

3. LLDP Neighbor Information is shown.

Review current status.

2.12. Statistic Chart

Statistic Chart shows number of times, how packet ingress to each port and how err packet occur.

2.12.1. Traffic Comparison

This section explains you how to check number of incoming and outgoing packet.

- 1. Log into your switch management page.
- 2. Click Statistic, and click Traffic Comparison

→ @ http://192.168.0.1/	Q	- C 🌈 P	lanex Switch	×						
			16 P o	rt Gigabit	Layer 2	Web Sm	art PoE Sv	vitch		
SWE-0216G3	Statis	tic Info	rmation							^
SWE-0216G3	Traffic	Informatio	on							
	Port ID	InOctets	InUcastPkts	InNUcastPkts	InDiscards	OutOctets	OutUcastPkts	OutNUcastPkts	OutDiscards	Clear
Physical Interface	All	-	-	-	-	-	-	-	-	Apply
	1	0	0	0	0	0	0	0	0	Apply
RMON	2	0	0	0	0	0	0	0	0	Apply
Voice VLAN Security	3	0	0	0	0	0	0	0	0	Apply
Power Over Ethernet	4	0	0	0	0	0	0	0	0	Apply
E CP Shooping	5	0	0	0	0	0	0	0	0	Apply
Statistic Chart	6	0	0	0	0	0	0	0	0	Apply
Error Group	7	0	0	0	0	0	0	0	0	Apply
Save Settings to Flash	8	0	0	0	0	0	0	0	0	Apply
	9	0	0	0	0	0	0	0	0	Apply
	10	0	0	0	0	0	0	0	0	Apply
	11	0	0	0	0	0	0	0	0	Apply
	12	0	0	0	0	0	0	0	0	Apply
	13	0	0	0	0	0	0	0	0	Apply

3. Traffic Information is shown.

Traffic Information	
Port ID	[Fixed]All /1-16ports listed up
InOctets	[Fixed]Incoming Byte per second
InUcastPkts	[Fixed]Incoming Unicast packet per second
InNUcastPkts	[Fixed]Incoming Non-unicast packets per second
InDiscards	[Fixed]Incoming Discards packet per second
OutOctets	[Fixed]Outgoing Byte per second
OutUcastPkts	[Fixed] Outgoing Unicast packet per second
OutNUcastPkts	[Fixed] Outgoing Non-unicast packets per second
OutDiscards	[Fixed] Outgoing Discards packet per second

Review current status. If you want counter reset, push Apply on each entry

2.12.2. Error Group

This section explains you how to check number of error packets.

- 1. Log into your switch management page.
- 2. Click Statistic, and click Error Group

→ 🥖 http://192.168.0.1/	Q	- 0 🎑	Planex Swite	:h	×					
			16	Port Giga	bit Layer 2 V	Veb Smart I	PoE Switch	ı		
SWE-0216G3	Statis	stic Inf	ormation	1						
Switch Info	Port ID	InFrrors	OutErrors	DropEvents	CRCAlignErrors	UndersizePkts	OversizePkts	Fragments	Collisions	Clear
Physical Interface	All	-	-	-	-	-	-	-	-	Apply
Endge	1	0	0	0	0	0	0	0	0	Apply
Access Control Config MON	2	0	0	0	0	0	0	0	0	Apply
Orice VLAN	3	0	0	0	0	0	0	0	0	Apply
Power Over Ethernet	4	0	0	0	0	0	0	0	0	Apply
DHCP Snooping LLDP	5	0	0	0	0	0	0	0	0	Apply
Statistic Chart	6	0	0	0	0	0	0	0	0	Apply
Error Group	7	0	0	0	0	0	0	0	0	Apply
Save Settings to Flash	8	0	0	0	0	0	0	0	0	Apply
	9	0	0	0	0	0	0	0	0	Apply
	10	0	0	0	0	0	0	0	0	Apply
	11	0	0	0	0	0	0	0	0	Apply
	12	0	0	0	0	0	0	0	0	Apply
	13	0	0	0	0	0	0	0	0	Apply

3. Error Group is shown.

Error Information	
Port ID	[Fixed]All /1-16ports listed up
InErrors	[Fixed]Incoming error packet per second
OutErrors	[Fixed]Outgoing error packets from startup
DropEvevts	[Fixed]Dropping packets from startup
CRCAlignErrors	[Fixed]CRC,Align Error occur number
UndersizePkts	[Fixed]Number of under 64bit length packet
OversizePkts	[Fixed]Number of over 2000bit length packet
Fragments	[Fixed]Number of >64bit length fragment packet
Collisions	[Fixed]Number of collision received.
	Under Jumbo packet are communicated, this
	parameter raise up until get collect Frame size.

Review current status. If you want counter reset, push Apply on each entry.

2.13. Tool

Tool is system maintenance function group.

2.13.1. Firmware Upgrade

This section explains you how to upgrade switch firmware.



NOTE: DO NOT turn off device or press reset button UNDER firmware upgrade. ANY interruption during firmware upgrade process may PERMANENTLY damage your switch

2.13.1.1.Via HTTP

Upgrade firmware via web management page.

- 1. Log into your switch management page.
- 2. Click Tools, and click Firmware Upgrade, and click "via HTTP"

→ Ø http://192.168.0.1/	🔎 🗝 🖉 Planex Sv	vitch ×			≜ ★ #
	1	6Port Gigabit Layer 2	Web Smart PoE Switch		
SWE-0216G3 SWE-0216G3 SWE-0216G3 Switch Info Switch Info Physical Interface G Bridge	Firmware Upgrade Firmware Upgrade via H Image Version: Firmware File:	via HTTP ITTP Settings 1.00.05		参照	
A SNMP A SAMP A Scess Control Config A Yole CVAN Security Power Over Ethernet Different DLDP Statistic Chart Firmware Upgrade Via HTTP Via TFTP Cable Diagnostics Reboot Reboot Save Settings to Flash	Note: System will reset auto	matically after burning image to	flash.	[Apply

 Push "Browse..." button, choose Firmware file, and click Apply. If Prompt is shown, click YES or OK.

2.13.1.2. Via TFTP

Upgrade firmware via TFTP server.

- 1. Log into your switch management page.
- 2. Click Tools, and click Firmware Upgrade, and click "via TFTP"

C A Matthe //192.168.0.1/	Q = C Alanex Switch		A + 8
COMM.	16Po	rt Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	Firmware Upgrade via	TFTP	
SWE-0216G3	Firmware Upgrade via TFTP S	ettings	
	Image Version:	1.00.05	
Bridge	TFTP Server IP:		
⊞		O IPv6	
i⊞⊶ 🚰 RMON i≣⊶ 🚭 Voice VLAN	Image File Name:	(64 characters max.)	
Security Power Over Ethernet	Note: System will reset automatica	ally after burning image to flash.	Analy
DHCP Snooping			Арріу
Batistic Chart			
Firmware Upgrade			
Config File Upload/Download Cable Diagnostics			
IEEE 802.3az EEE			
Save Settings to Flash			

3. 4 settings are shown

TFTP Upgrade	
Image Version	[Fixed]Current firmware version is shown
TFTP Server IP	[Variable]Input TFTP server IP address.
Image File Name	[Variable]Input TFTP file path & file name.
Retry Count	[Variable]Input limit times for retry reciting

After input server information, click Apply. Automatically switch burn image to flash, and reboot.

2.13.2. Config File Upload/Download

You can save or restore switch configurations as file.

2.13.2.1. Via HTTP

Setting backup / Restore via web management page.

- 1. Log into your switch management page.
- 2. Click Tools, and click Config File Upload/Download, and click "via HTTP"

← → Ø http://192.168.0.1/	の 🗸 🖒 🙋 Planex Switch	×		<u></u>
	16Port	Gigabit Layer 2 Web	Smart PoE Switch	
SWE-0216G3	Config File Backup/Resto	pre via HTTP		
SWE-0216G3	File Backup/Restore via HTTP Se	ettings		
	Select File:		参照	
Bridge Brid Bridge Bridge Bridge Brid Bridge Bridge Bridge Bridge Bridg				Backup Restore
Gecurity Power Over Ethernet Ged DHCP Snooping Ged LLDP Ged Statistic Chart				
Tools				
Cable Diagnostics 				
Save Settings to Flash				

If you want to back up current settings, click Backup.

If you want to restore setting file, click Browse..., choose config.bin, and click Restore.

2.13.2.2. Via TFTP

Upgrade firmware via TFTP server.

- 1. Log into your switch management page.
- 2. Click Tools, and click Config File Upload/Download, and click "via TFTP"

	ည္ – ငံ 🖉 Planex Switch	×	↑ ★ ¤
	16Port G	igabit Layer 2 Web Smart Po	DE Switch
SWE-0216G3 SWE-02	16Port G Config File Backup/Restore Config File Backup/Restore via TF TFTP Server IP: Config File Name:	igabit Layer 2 Web Smart Po	► Switch ● IPv4 ○ IPv6 (64 characters max.) Backup Restore

3. 4 settings are shown

Config File Backup/Restore via TFTP		
TFTP Server IP	[Variable]Input TFTP server IP address.	
Config File Name	[Variable]Input TFTP file path & file name.	

If you want to back up current settings, click Backup to TFTP server.

If you want to restore setting file, click Restore from TFTP server.

2.13.3. Cable Diagnostics

You can do simple test about 4-pair in LAN cable

- 1. Log into your switch management page.
- 2. Click Tools, and click Cable Diagnostics.

SWE-0216G3 SWE-0216G3 SWIE-0216G3 SWIE-0216G3 SWIE-0216G3	16Port	Gigabit Layer 2 Web Smart P	oE Switch	
SWE-0216G3 SWE-0216G3 SWE-0216G3	Cable Diagnostics			
SWE-0216G3 SWE-0216G3 SWE-0216G3 Switch Info Switch Info System	Cable Diagnostics			
SWE-0216G3				
🗄 📹 System 🕴	Cable Diagnostics Settings			
Physical Interface	Port	1 🗸		
E Bridge				Test Now
Access Control Config	Cable Diagnostics Table			
	Port Test Result	Cable Fault Distance (meters)	Cable Length (meters) [in range]	
Security Power Over Ethernet Power Over Ethernet DHCP Snooping DLDP Statistic Chart Tools Gabie Diagnostics Iffer 602.3az EEE Reboot Save Settings to Flash	The cable diagnostic feature is de test and verify copper cables, it c. Note: 1. If cable length is displayed as "N/A because either the link speed is les 2. The deviation of "Cable Fault Dista No cable may be displayed under T 3. The test also measures cable fault	signed primarily for administrators or c an quickly determine the quality of the i " it means the cable length is "Not Availabl s than 1G or the cables are broken and/or b nce" is +/. 2 meters. est Result when the cable is less than 2 me and identifies the fault in length according	ustomer service representatives. It is cables and the types of error. s".The cable length is undetermined ad quality. ters in length. to the distance from this switch.	; used to

3. 1 setting is shown

Cable Diagnostics Settings		
Port	[Selection]1-16 port select.	

4. After click Test Now. Result Cable Diagnostics Table is shown.

Result Cable Diagnostics Table		
Port	[Fixed]1-16 port that you select.	
Test result	[Fixed]show result pair1-4	
Cable Fault Distance	[Fixed]show length between switch and point of	
(meters)	problem.	
Cable Length	[Fixed]show cable length if use cat5e or high grade	
(meters)[in range]	cable.	

Review the result.

$2.13.4. \ \textbf{IEEE802.3az} \ \textbf{EEE}$

IEEE802.3az EEE technology help you reduce consumptions with shutdown non-use port, optimize electric current as cable length.

- 1. Log into your switch management page.
- 2. Click Tools, and click IEEE802.3az EEE.

3. 1 setting is shown

IEEE802.3az EEE Settings		
IEEE802.3az Energy	[Selection]Enabled / Disabled selection.	
Efficient Ethernet Status		

2.13.5. Reboot

You can reboot switch or restore default Config(you can choose IP address setting too, or not include)..

- 1. Log into your switch management page.
- 2. Click Tools, and click Reboot.

(→) @ http://192.168.0.1/	P → C @ Planex Switch ×	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
PLANEX COMM.	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3	Factory Default Reset Reboot Reboot Type:	
Firstead Interface Firstead Firstead SNMP SAccess Control Config RNON Security Power Over Ethemet GHCP Snooping Satistic Chart Tools Firstead Downser Upgrade Cable Disponsites IEEE 802.3az EEE RAbool Ping Save Settings to Flash	Note: System will reboot in a few seconds after pressing the Apply button.	Apply
http://192.168.0.1/iss/port_cfg.html?Gamb	bit=idadidedcdddfdadbdkdbdkdcdidcdcdddkdbgegngjgo	

3. 1 setting is shown

Reboot	
Reboot Type	[Selection]Normal /Factory Default / Factory Default
	Expect IP selection.

Review the settings. When you have completed making changes, click Apply

2.13.6. Ping

PING test tool check IP reachability to same subnet devices.

- 1. Log into your switch management page.
- 2. Click Tools, and click Ping.

← → Ø http://192.168.0.1/	の 🗸 🕈 🏉 Planex Switch	×	±+ + + + + + + + + + + + + + + + + + +
PLANEX COMM.	16Por	t Gigabit Layer 2 Web Smart PoE S	\$witch
SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 SWE-0216G3 System Project Information Security Constraints Security Power Over Ethernet OHCP Snooping Statistic Chart Statistic Chart Constraints Statistic Chart Constraints Statistic Chart Statistic Chart Constraints Statistic Chart Statistic Chart Stat	16Por	t Gigabit Layer 2 Web Smart PoE S	IPv4 2 IPv6 Start Show Ping Result

3. 3 settings are shown

Ping Test Settings	
Destination IP Address	[Variable]Input IP address for testing.
Timeout Value	[Variable]Input timeout seconds.
Number of Ping Request	[Variable]Input how many ping sending.

If you want to ping with current settings, click Start.

If you want to check ping result, click Show Ping Result.

2.14. Save Settings to Flash

You can save all Apply and add Config to flash and read next re-startup.

- 1. Log into your switch management page.
- 2. Click Save Settings to Flash.

(-) (-) (2 http://192.168.0.1/	ク・ C 🦉 Planex Switch ×	<u>†</u> ★ #
PLANEX COMM.	16Port Gigabit Layer 2 Web Smart PoE Switch	
SWE-0216G3 SWE-0216G3	Save Settings to Flash	^
System System System System Structure Access Control Config Dictor Value Control C	Note: The switch will stop responding while saving the current configuration to flash.	
		Ŷ

Review the settings. When you have completed making changes, click Save Settings to Flash

3. Specification

Model name	SWE-0216G3
Function	
	IEEE 802.3 : 10BASE-T
	IEEE 802.3u : 100BASE-TX
	IEEE 802.3ab : 1000BASE-T
	IEEE 802.3z : 1000BASE-X
	IEEE 802.3x : Flow Control
Company damage shared and	IEEE 802.1Q : VLAN
Correspondence standard	IEEE 802.1x : RADIUS
	IEEE 802.1p : QoS / Class of Service, Priority Protocols
	IEEE 802.3 : Nway Auto-negotiation
	IEEE802.3ad : Link Aggregation
	IEEE802.1D : Spanning Tree
	IEEE802.1w : Rapid Spanning Tree
	RJ-45 x 16:10BASE-T,100BASE-TX,1000BASE-T
Confirmation of most	(Auto negotiation, AutoMDI/MDI-X)
Configuration of port	Combo miniGBIC x 2 : 1000BASE-X
	(Exclusion use)
Switching method	Store & Forward
	UTP/STP LAN cable
Network Cable	10Mbps : Cat.3+, 100Mbps : Cat.5+, 1000Mbps : Cat.5e+
Packet Buffer	1MB
Switching Fabric	32Gbps
SDRAM	128MB
Flash ROM	16MB
Number of MAC Address	16,000(whole switch)
	10BASE-T : 14,880pps
Inroughputs(64Byte)	100BASE-TX : 148,800pps
per port	1000BASE-X : 1,488,000pps
Flow control	Full Duplex : IEEE802.3x, Half Duplex : Back-Pressure
VLAN ID	4,000
QoS	Hardware QoS queues 4
Link Aggregation	8 groups, 8 ports per group

Spanning Tree	STP, RSTP	
IGMP Snooping	V1&V2	
Storm Control	Broadcast/Multicast/Unicast	
Port Mirroring	One to One, Many to One	
Security	Management access control	
DoE	185W(Max 6ports support IEEE 802.3at (PoE+), Max 10ports	
POE	support IEEE 802.3af (PoE))	
Hardware		
Button	Reset	
LED	Power, Link/Act, PoE, PoE MAX	
FAN	Include	
ADAPTER POWER	AC100V-240V 50/60Hz (Power Code Max.AC125V)	
Consumption quantity of	Max 198W	
electricity		
Size	440(W) x 44(H) x 250(D)mm (not include projection)	
Weight	3.6kg	
Operating environment	Temperature : 0 ~ 45 $^{\circ}$ C	
Operating environment	Humidity : 5~90% (non-condensing)	
Chara anvironment	Temperature : -20∼70℃	
Store environment	Humidity : $10\sim90\%$ (non-condensing)	
Certificate	CE FCC Class A, VCCI Class A	
Other		
Warranty	1 year	
4. Troubleshooting

- Cannot connect <u>http://192.168.0.1</u>
 - \succ Please check 5 points
 - Please check power LED on switch. Does LED switch on? If LED is off, check power code connected surely.
 - Please check LAN port LED. If LED is not brink or lit, check LAN cable or NIC on your console machine. If LED is lit, check your NIC IP settings, is working as static IP(e.g. 192.168.0.100/24).
 - Please check device connected to switch. Is there another device which uses same IP addresses. Duplicate IP address devices make trouble.
 - > Please check your IP address. Is not your IP address duplicated?
 - Please check current configuration. Would not you have setup limitation for web management page access? If you forget configuration, reset configurations with click reset button.
- PoE PD is not working well.
 - Please check LAN cable length end-to-end whether it is shorter than 100meter. If cable is longer than 100m, signal is affected by noise. So it causes negotiating fail.
 - Please check PoE MAX LED, Switch spend all power for PoE device.
 Re-plan device allocation.
 - Please check LAN cable structure. Is cable applied Cat.5e standard? Some cable structure is 4wires supply no power to PD device.