

Web-Smart PoE Switch

PWS-CS08-120M

USER MANUAL

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1 Introduction

Power-over-Ethernet (PoE) eliminates the need to run DC power to other devices on a wired LAN. Using a Power-over-Ethernet system, installers need to run only a single Category 5 Ethernet cable that carries both power and data to each device. This allows greater flexibility in the locating of network devices and, in many cases, significantly decreases installation costs.

There are two system components in PoE - the PSE (Power Sourcing Equipment) and the PD (Powered Device). The IEEE 802.3af/at specification defines PSE as a device that inserts power onto an Ethernet cable. The PSE may be located at the switch (End-span configuration), or it may be a separate device located between the switch and the PD (Mid-span configuration). The PD is the natural termination of this link, receiving the power, and could be an IP phone, a WLAN access point, or any other IP device that requires power. The current is transmitted over two of the four twisted pairs of wires in a Category-5 cable.

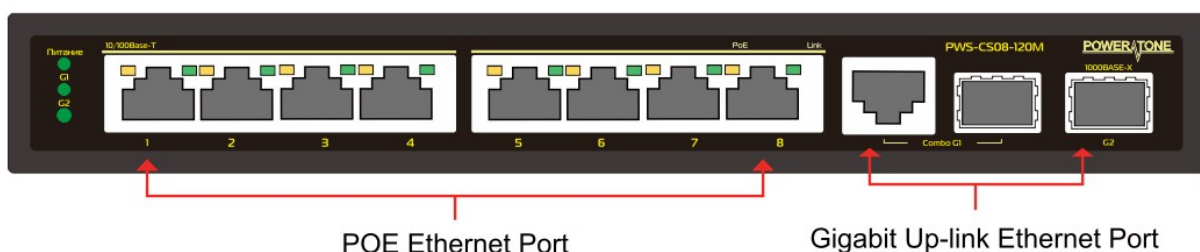
Power-over-Ethernet follows the IEEE 802.3af/at specification and is completely compatible with existing Ethernet switches and networked devices. Because the Power Sourcing Equipment (PSE) tests whether a networked device is PoE-capable, power is never transmitted unless a Powered Device is at the other end of the cable. It also continues to monitor the channel. If the Powered Device does not draw a minimum current, because it has been unplugged or physically turned off, the PSE shuts down the power to that port. Optionally, the standard permits Powered Devices to signal to the PSEs exactly how much power they need.

The PoE switch is a multi-port fast Ethernet switch that can be used to build high-performance switched workgroup networks. This switch is a store-and-forward device that offers low latency for high-speed networking. It also features a 'store-and-forward switching' scheme that allows the switch to auto-learn and store source addresses in a 8K-entry MAC address table. The switch is targeted at workgroup, department or backbone computing environments.

2 Hardware Description

2.1 Front Panel

The front panel consists of LED indications, reset button and 8x10/100 PoE ports + TX+1 Gigabit Combo+1Gigabit SFP with 8 PoE Ethernet Switch.



2.2 LED Indicators

Power LED: The Power LED lights up when the switch is connected to a power source.

Link/Act LED:

Green (for megabit ports): Indicates that the port is running at 100M.

Green (for gigabit ports): Indicates that the port is running at 100M.

Blinking: Indicates that the switch is either sending or receiving data to the port.

Light off: No link.

PoE LED:

Green: Indicates the PoE powered device (PD) is connected and the port supplies power successfully.

Light off: Indicates no powered device (PD) connected.

Reset: By pressing the Reset button for 5 seconds the switch will change back to the default configuration and all changes will be lost.

2.3 Rear Panel

The rear panel view of the switch consists of Reset button and DC input plug.



2.4 Specification

| | Item | Description |
|---------------------|-------------------------|--|
| Power | Power Supply | External Power Adaptor |
| | Voltage Range | DC48V~52V |
| | Consumption | < 6W |
| Ethernet | Speed | 1-8 Port:10/100Mbps Uplink:100Mbps |
| | Transmission Distanc | 1-8port 100Meters with 100Mbps Uplink:1Gigabit Combo and 1Gigabit SFP(RJ-45 10/100/1000Mbps SFP supports optical module rates:1.25Gbps) |
| Network Switch | Ethenet Standard | IEEE 802 3 802 3u 802 3af at |
| | Switching capacity | 9.6G |
| | Transfer Rate | 14,880 pps for 10Mbps 148,800 pps for 100Mbps |
| | MACAddress | 4K MAC address table |
| Working Environment | Working Temperature | 0°C ~ 40°C |
| | Storage Temperature | -40°C ~ 70°C |
| | Humidity Non Condensing | 0~85% |
| Mechanical | Dimension L*W*H | 218*107*29mm |
| | Color | Black |

3 Getting Started

This chapter introduces the management interface of the switch.

3.1 Management Options

The Switch can be managed through any port on the device by using the Web-based Management. Each switch must be assigned its own IP Address, which is used for communication with Web-Based Management. The PC's IP address should be in the same range as the switch. Each switch can allow only one user to access the Web-Based Management at a time.

Please refer to the following installation instructions for the Web-based Management.

3.2 Using Web-based Management

After a successful physical installation, you can configure the switch, monitor the network status, and display statistics using a web browser.

Connecting to the Switch

You will need the following equipment to begin the web configuration of your device:

- A PC with a RJ-45 Ethernet connection
- A standard Ethernet cable

Connect the Ethernet cable to any of the ports on the front panel of the switch and to the Ethernet port on the PC.

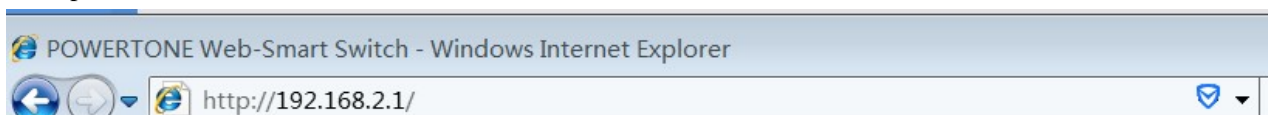
Login Web-based Management

If DHCP is not enabled on the local LAN, the switch will be able to log in to the web page with 192.168.2.1 after 30 seconds. If DHCP is enabled, the DHCP server (router) will assign the address to the switch, and use DHCP to log in to the switch. Login to the switch web page.

System IP Configuration

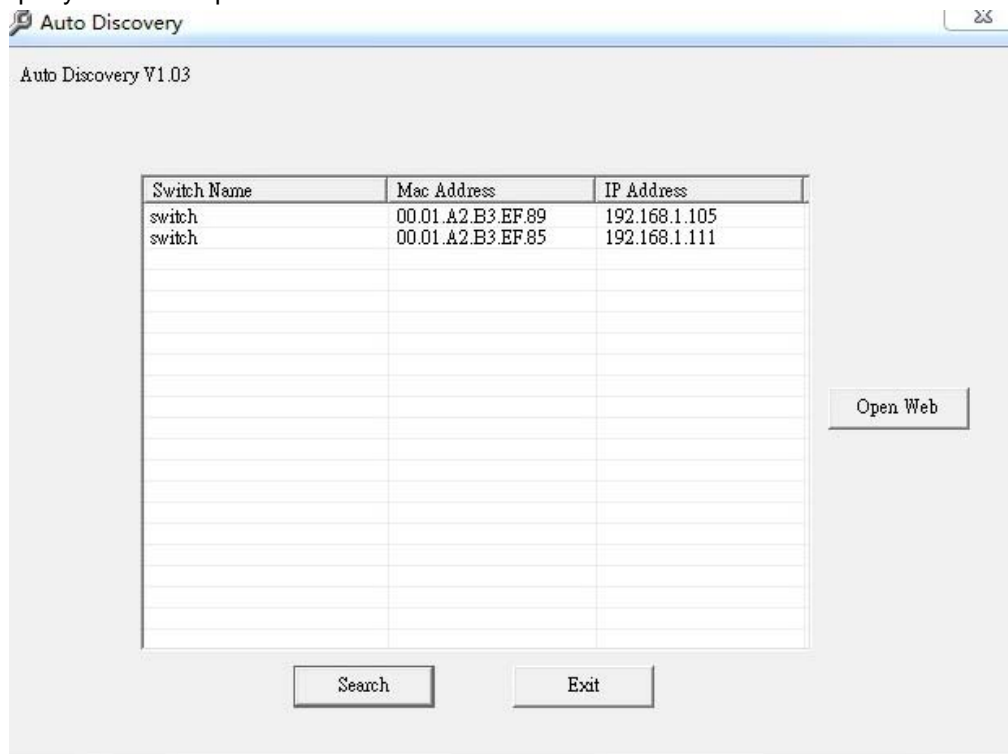
| Setting | Value |
|---------------------------------------|---|
| IP Address | <input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="2"/> . <input type="text" value="1"/> |
| Subnet Mask | <input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="255"/> . <input type="text" value="0"/> |
| Gateway | <input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="2"/> . <input type="text" value="254"/> |
| IP Configure | <input type="radio"/> Static <input checked="" type="radio"/> DHCP |
| <input type="button" value="Update"/> | |

In case no DHCP server, In order to login and configure the switch via an Ethernet connection, the PC must have an IP address in the same subnet as the switch. For example, if the switch has an IP address of **192.168.2.1**, the PC should have an IP address of **192.168.2.x** (where x is a number between 2 ~ 254), and a subnet mask of 255.255.255.0. Open the web browser and enter **192.168.2.1** (the factory-default IP address) in the address bar. Then press <Enter>.



When the following logon dialog box appears, enter the username and password then click **OK**. The default username is **admin** and password is **system**.

Note:If the DHCP server (routing) to the switch assigned address, you can use the AutoDiscovery tool to query the switch ip



4.Configuration

The features and functions of the switch can be configured for optimum use through the Web-based Management.

4.1 Welcome

After a successful login you will see the screen bellows:

- Administrator
- PoE
- Port Management
- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

8-Port 10/100Mbps Plus 2-Port Gigabit Ethernet Switch

Advanced Features

- Bandwidth control
- Port based & Tag based VLAN
- Statistics Counter
- Firewall
- VLAN Uplink
- L2 ~ L4 Class of Service

Basic Features

- Embedded HTTP web Management
- Configuration Backup/Recovery
- TFTP Firmware upgradeable
- Secure Management
- User name/Password security

4.2 Administrator

Administrator -> Authentication Configuration

Here you can enter a new **Username/Password** and confirm it.

The factory default is DHCP, If no address is obtained, the switch is accessed using 192.168.2.1

Username: admin

Password: system

- Administrator
 - Authentication Configuration
 - System IP Configuration
 - System Status
 - Load default setting
 - Firmware Update
 - Reboot Device
- PoE
- Port Management
- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Authentication Configuration

| Setting | Value |
|---------------------------------------|---|
| Username | <input type="text" value="admin"/> max:15 |
| Password Confirm | <input type="password" value="•••••"/> max:15 <input type="password" value="•••••"/> |
| <input type="button" value="Update"/> | |

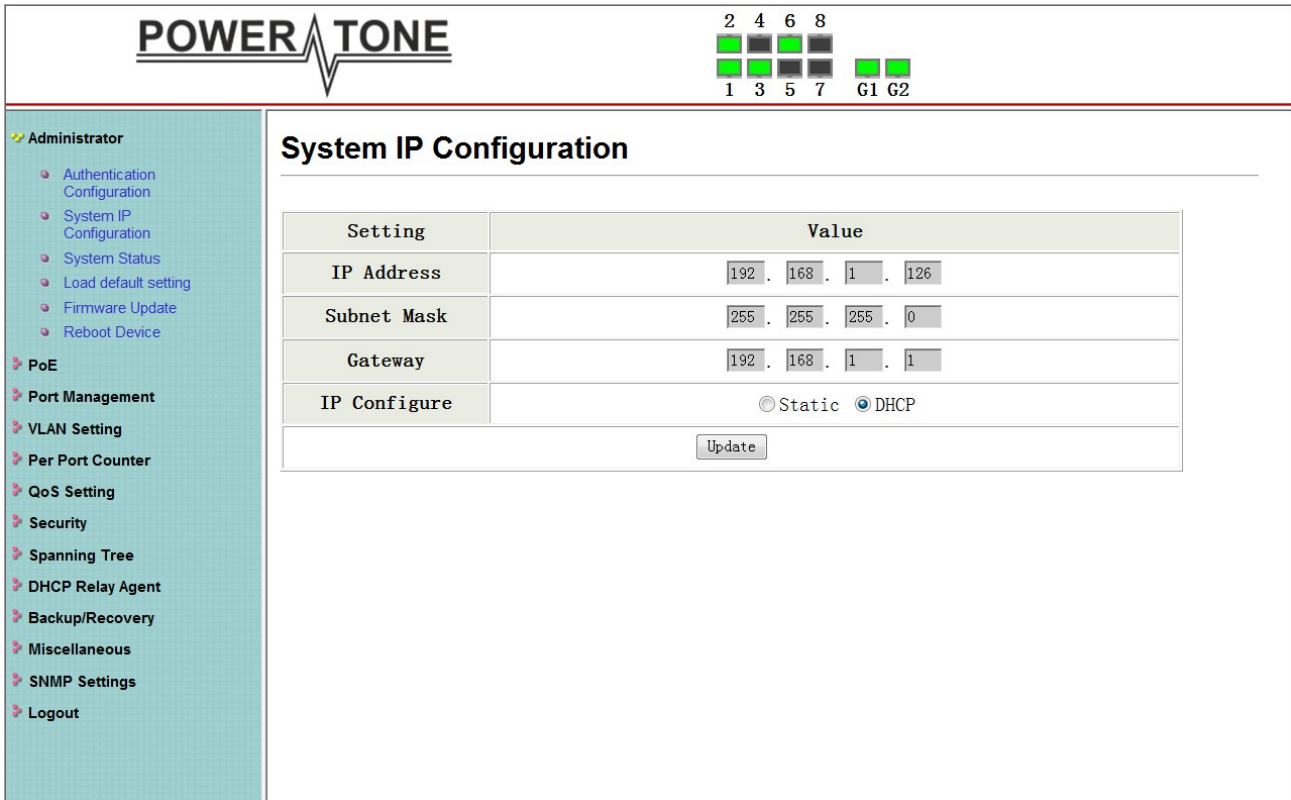
Note:

Username & Password can only use "a-z", "A-Z", "0-9", "_", "+", "-", "=".

Administrator -> System IP Configuration

There are two ways for the switch to obtain an IP address: Static and DHCP (Dynamic Host Configuration Protocol).

When using static mode, the **IP address**, **Subnet Mask** and **Gateway** can be manually configured. When using DHCP mode, the Switch will first look for a DHCP server to provide it with an IP address (including network mask and default gateway) before using the default or previously entered settings. By default the IP setting is static mode with IP address is **192.168.2.1** and subnet mask is **255.255.255.0**



The screenshot displays the 'POWER TONE' web interface. At the top right, there is a status indicator with a grid of colored squares (green and grey) labeled 1 through 8 and G1, G2. The main content area is titled 'System IP Configuration'. On the left, a sidebar menu lists various configuration options under the 'Administrator' heading, including Authentication Configuration, System IP Configuration, System Status, Load default setting, Firmware Update, Reboot Device, PoE, Port Management, VLAN Setting, Per Port Counter, QoS Setting, Security, Spanning Tree, DHCP Relay Agent, Backup/Recovery, Miscellaneous, SNMP Settings, and Logout. The 'System IP Configuration' section contains a table with the following data:


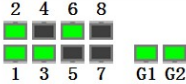
| Setting | Value |
|--------------|--|
| IP Address | 192 . 168 . 1 . 126 |
| Subnet Mask | 255 . 255 . 255 . 0 |
| Gateway | 192 . 168 . 1 . 1 |
| IP Configure | <input type="radio"/> Static <input checked="" type="radio"/> DHCP |

Below the table is an 'Update' button.

Administrator -> System Status

Comment: By entering a Comment, the device can more easily be recognized on the LAN.

Idle Time Security: It controls the idle time-out period for security purposes, when there is no action for a specific time span in the Web-based Management. If the current session times out (expires), the user is required a re-login before using the Web-based Management again. Selective range is from 3 to 30 minute, and the default setting is 5 minutes.

Administrator

- Authentication Configuration
- System IP Configuration
- System Status
- Load default setting
- Firmware Update
- Reboot Device

PoE

Port Management

VLAN Setting

Per Port Counter

QoS Setting

Security

Spanning Tree

DHCP Relay Agent

Backup/Recovery

Miscellaneous

SNMP Settings

Logout



System Status

| | |
|---|-------------------|
| MAC Address | 00:01:a2:b3:f8:30 |
| Number of Ports | 8+2 |
| Comment | 8p MAX:15 |
| System Version | IM-V118.27 |
| Idle Time: <input type="text" value="0"/> (1~30 Minutes) | |
| <input type="checkbox"/> Idle Time Security <input type="radio"/> Auto Logout(Default). <input type="radio"/> Back to the last display. | |
| <input type="button" value="Update"/> | |

Note:
Comment name only can use "a-z","A-Z","_","+", "-", "0-9"

Administrator -> Load default setting

Provide a safe reset option for the switch. All configuration settings in non-volatile RAM will be reset to factory default and then the switch will reboot.

Administrator

- Authentication Configuration
- System IP Configuration
- System Status
- Load default setting
- Firmware Update
- Reboot Device

PoE

Port Management

VLAN Setting

Per Port Counter

QoS Setting

Security

Spanning Tree

DHCP Relay Agent

Backup/Recovery

Miscellaneous

SNMP Settings

Logout

Load Default Setting

recover switch default setting excluding the IP address, User name and Password

Administrator -> Firmware Update

You must enter the password of device in order to determine the firmware needs to be updated.

After a correct password the switch will erase the old firmware first.

After completing the erase you will see the screen bellows. Specify the Firmware Path (or Browse for one) that you are going to use, and then click **Update**. The state will show 'OK' after completion, and 'Fail' is firmware upgrade fails or cannot be completed for any reason.

Administrator -> Reboot Device

Provide a safe way to reboot the system. Click **Reboot** to restart the switch.

4.3 Port Management

Port Management -> Port Configuration

In this page, the status of all ports can be monitored and adjusted for optimum configuration.

- Administrator
- PoE
- Port Management
 - Port Configuration
 - Port Mirroring
 - Bandwidth Control
 - Broadcast Storm Control
- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Port Configuration

| Function | Tx/Rx Ability | Auto-Negotiation | Speed | Duplex | Pause | Backpressure | Addr. Learning |
|---------------------------------------|--|------------------|-------|--------|-------|--------------|----------------|
| | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| Select Port No. | 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> G1 <input type="checkbox"/> G2 <input type="checkbox"/> | | | | | | |
| <input type="button" value="Update"/> | | | | | | | |

| Port | Current Status | | | | Setting Status | | | | | |
|------|----------------|-------|--------|----------|----------------|-----------|-------|--------|-------|--------------|
| | Link | Speed | Duplex | FlowCtrl | Tx/Rx Ability | Auto-Nego | Speed | Duplex | Pause | Backpressure |
| 1 | ● | 100M | FULL | HALF | ON | AUTO | 100M | FULL | ON | ON |
| 2 | ● | 100M | FULL | HALF | ON | AUTO | 100M | FULL | ON | ON |
| 3 | --- | --- | --- | --- | ON | AUTO | 100M | FULL | ON | ON |
| 4 | ● | 100M | FULL | HALF | ON | AUTO | 100M | FULL | ON | ON |
| 5 | --- | --- | --- | --- | ON | AUTO | 100M | FULL | ON | ON |
| 6 | --- | --- | --- | --- | ON | AUTO | 100M | FULL | ON | ON |
| 7 | --- | --- | --- | --- | ON | AUTO | 100M | FULL | ON | ON |
| 8 | --- | --- | --- | --- | ON | AUTO | 100M | FULL | ON | ON |
| G1 | ● | 1G | FULL | ON | ON | AUTO | 1G | FULL | ON | ON |

Enable: Enable or disable the port's connection

Auto-Nege: Enable or disable port auto-NDI/MDIX

Speed: Copper connections can operate in Forced Mode settings (1000M Full, 100M Full, 100M Halt, 10M Full, 10M Half), Auto, or Disabled. The default setting for all ports is **Auto**.

Duplex: Copper connections can operate in Full-Duplex or Half-Duplex Mode

Addr. Learning: Enable or disable port learning MAC address.

Port Management -> Port Mirroring

Port Mirroring is a method of monitoring network traffic that forwards a copy of each incoming and/or outgoing packet from one port of the Switch to another port where the packet can be studied. This enables network managers to better monitor network performances.

- ▶ Administrator
- ▶ PoE
- ▶ **Port Management**
 - Port Configuration
 - **Port Mirroring**
 - Bandwidth Control
 - Broadcast Storm Control
- ▶ VLAN Setting
- ▶ Per Port Counter
- ▶ QoS Setting
- ▶ Security
- ▶ Spanning Tree
- ▶ DHCP Relay Agent
- ▶ Backup/Recovery
- ▶ Miscellaneous
- ▶ SNMP Settings

Port Mirroring

| | | | | | |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Dest Port | 01 | 02 | 03 | 04 | 05 |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 06 | 07 | 08 | G1 | G2 |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Monitored Packets | Disable ▾ | | | | |
| Source Port | 01 | 02 | 03 | 04 | 05 |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 06 | 07 | 08 | G1 | G2 |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="button" value="Update"/> | | | | | |
| Multi to Multi Sniffer function | | | | | |

TX (transmit) mode: Duplicates the data transmitted from the source port and forwards it to the Target Port. Click "all" to include all ports into port mirroring.

RX (receive) mode: Duplicates the data that received from the source port and forwards it to the Target Port. Click "all" to include all ports into port mirroring.

Both (transmit and receive) mode: Duplicate both the data transmitted from and data sent to the source port, and forwards all the data to the assigned Target Port. Click "all" to include all ports into port mirroring.

Note. The target ports will stop mirroring packets if there are unknown tags or destination packets sent out by source ports.

Port Management -> Bandwidth Control

The Bandwidth Control page allows network managers to define the bandwidth settings for a specified port's transmitting and receiving data rates.

- Administrator
- PoE
- Port Management
 - Port Configuration
 - Port Mirroring
 - Bandwidth Control
 - Broadcast Storm Control
- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Bandwidth Control

| Port No | Tx Rate | Rx Rate |
|---------|---|---|
| 1 | (0~255) <input type="text"/> (0:Full Speed) | (0~255) <input type="text"/> (0:Full Speed) |

Speed Base Low

Low:
(1)32Kbps Tx/Rx bandwidth resolution for port 1~ port 10.
Actual Tx/Rx bandwidth =Rate value x 32 kbps. The rate value is 1~255.

High:
(1)256Kbps Tx/Rx bandwidth resolution for port 1~ port 8.
Actual Tx/Rx bandwidth=Rate value x 256Kbps. The rate value is 1~255.
When link speed is 10MB. The rate value is 1~39.

(2)the bandwidth resolution is 2048Kbps for port 9, port 10.
Actual Tx/Rx bandwidth=Rate value x 2048Kbps. The rate value is 1~255.
When link speed is 10MB. The rate value is 1~4.

When link speed is 100MB. The rate value is 1~48.

If the link speed of selected port is lower than the rate that you seting, this system will use the value of link speed as your setting rate.

| Port No. | Tx Rate | Rx Rate | Link Speed | Port No. | Tx Rate | Rx Rate | Link Speed |
|----------|------------|------------|------------|----------|------------|------------|------------|
| 1 | Full Speed | Full Speed | 100M | 6 | Full Speed | Full Speed | --- |

TX Rate: This allows you to enter data receive rate from 0 to 255 (base on speed base), 0 for full speed.

RX Rate: This allows you to enter data transmit rate from 0 to 255 (base on speed base), 0 for full speed.

Speed Base:

Port Management -> Broadcast Storm Control

The Broadcast Storm Control feature provides the ability to control the receive rate of broadcast packets.

Once a packet storm has been detected, the Switch will drop packets coming into the Switch until the storm has subsided.

POWER TONE

2 4 6 8
1 3 5 7 G1 G2

Broadcast Storm Control

Threshold: 63 (range 1~63)

| | | | | | |
|-------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Enable Port | 01 <input type="checkbox"/> | 02 <input type="checkbox"/> | 03 <input type="checkbox"/> | 04 <input type="checkbox"/> | 05 <input type="checkbox"/> |
| | 06 <input type="checkbox"/> | 07 <input type="checkbox"/> | 08 <input type="checkbox"/> | G1 <input type="checkbox"/> | G2 <input type="checkbox"/> |

This value indicates the number of broadcast packet which is allowed to enter each port in one time unit. One time unit is 50us for Gigabit speed, 500 us for 100Mbps speed and 5000us for 10Mbps speed

Note: This effect may be not significant for long broadcast packet, since the broadcast packet count passing through the switch in a time unit is probably less than the specified number.

4.4 VLAN Setting

VLAN Setting -> VLAN Mode

A VLAN is a group of ports that can be anywhere in the network, but communicate as though they were in the same area. VLANs can be easily organized to reflect department groups (such as R&D, Marketing), usage groups (such as e-mail), or multicast groups (multimedia applications such as video conferencing), and therefore help to simplify network management by allowing users to move devices to a new VLAN without having to change any physical connections.

POWER TONE

2 4 6 8
1 3 5 7 G1 G2

VLAN Mode

VLAN Mode: Port Based VLAN

Prot Based VLAN: Port-Based VLANs are the simplest and most common form of VLAN. It assigns the appliance LAN ports to VLANs, effectively transforming the appliances. You can assign multiple ports to the

same VLAN, or each port to a separate VLAN.

802.1Q VLAN: By default, 802.1Q VLAN is disabled. With 802.1Q VLAN enabled, the VLAN VID 1 is created by default with an empty VLAN name field and all ports are configured as “Untagged” members.

VLAN Setting

POWER TONE

2 4 6 8
1 3 5 7 G1 G2

VLAN Member Setting (Port Based)

Name: _____ (max 8 characters)

| | | | | | | | | |
|------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Destination PORT | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Select | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Destination PORT | G1 | G2 | - | - | - | - | - | - |
| Select | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| VLAN MEMBER | | | | | | | | | | |
|-------------|----|----|----|----|----|----|----|----|----|----|
| Port Num | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | G1 | G2 |
| | - | - | - | - | - | - | - | - | - | - |

Add VLAN: Click to create a new VLAN name and to select VLAN ports. The VLAN name should be less than 10 characters. To save the members in a group, click **Add**.

VLAN Setting ->

POWER TONE

2 4 6 8
1 3 5 7 G1 G2

Multi to 1 Setting

Enable:

Destination PortNo: _____ Port: 1

Current Setting: _____ Port: _____

| | | | | | | | | | | |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Disable Port | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | G1 | G2 |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

1. A example for Multi-to-1 structure

**Destination Port/
Current Setting**

(N)

Ports

(01)

(02)

⋮

(M)

VLAN Groups

1



2

⋮

M

2. The original setting of the VLAN Group will be cleared and replaced by this special structure if you enable this function. On the other hand, if you set the VLAN Group again, this special structure will be cleared and replaced by your newest setting.

VLAN Setting ->

- Administrator
- PoE
- Port Management
- VLAN Setting
 - VLAN mode
 - VLAN Member
 - Multi to 1 Setting
 - Non-Association Port Setting
- Per Port Counter
- QoS Setting
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Non-Association Port Setting

| | |
|---------------------------------------|--|
| Select Port No. | <input type="checkbox"/> 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> G1 <input type="checkbox"/> G2 |
| <input type="button" value="Update"/> | |



Note:
If a port is the non-association port, it will not send packet to other non-association ports.

4.5

Per Port Counter

Per Port Counter -> Port Counter

The Statistics screen displays the status of each port packet count.

- Administrator
- PoE
- Port Management
- VLAN Setting
- Per Port Counter
 - Port Counter
- QoS Setting
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Counter Category

Counter Mode Selection: Transmit Packet & Receive Packet

| Port | Transmit Packet | Receive Packet |
|------|-----------------|----------------|
| 01 | 11232 | 3711 |
| 02 | 11275 | 3781 |
| 03 | 0 | 0 |
| 04 | 8114 | 1364 |
| 05 | 0 | 0 |
| 06 | 0 | 0 |
| 07 | 0 | 0 |
| 08 | 0 | 0 |
| G1 | 23219 | 13980 |
| G2 | 14779 | 15699 |

4.6 QoS Setting

QoS Setting -> Priority Mode

- Administrator
- PoE
- Port Management
- VLAN Setting
- Per Port Counter
- QoS Setting
 - Priority Mode
 - Port, 802.1p, IP/DS based
 - TCP/UDP Port Based
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Priority Mode

Priority Mode

Mode

First-In-First-Out
 All-High-before-Low
 Weight-Round-Robin.

Low weight: High weight:

Note: When the queue weight is set to "0", it will be treated as "8".
 The "low weight" and "high weight" means the ratio of the packet in the transmit queue. For example, If "low weight" and "high weight" are set to "3" and "5", the ratio of the trasmit packet for the low priority to high priority is 3/5.

隐藏空白

QoS Setting -> Port, 802.1p, IP/DS based

- Administrator
- PoE
- Port Management
- VLAN Setting
- Per Port Counter
- QoS Setting
 - Priority Mode
 - Port, 802.1p, IP/DS based
 - TCP/UDP Port Based
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Class of Service Configuration

=Enable High Priority

| Port No.\Mode | Port Base | VLAN Tag | IP / DS | Port No.\Mode | Port Base | VLAN Tag | IP / DS |
|---------------|--------------------------|--------------------------|--------------------------|---------------|--------------------------|--------------------------|--------------------------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | G1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | G2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

As long as any of three COS schemes(802.1p,IP TOS/DS or Port Base) is mapped to "high", the data packet will be treated as the high priority.

QoS Setting -> TCP/UDP Port Based

- Administrator
- PoE
- Port Management
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- Per Port Counter
- QoS Setting
 - Priority Mode
 - Port, 802.1p, IP/DS based
 - TCP/UDP Port Based
- Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

| | | | | | |
|---|--|--|--|--|-----------|
| Yahoo(5050) | | | | | F-I-F-O ▾ |
| BOOTP_DHCP(67,68) | | | | | Low ▾ |
| User_Define_a | | | | | F-I-F-O ▾ |
| User_Define_b | | | | | F-I-F-O ▾ |
| User_Define_c | | | | | F-I-F-O ▾ |
| User_Define_d | | | | | F-I-F-O ▾ |
| User_Define Port number (1~65535) Mask(0~255) | User_Define_a Port: <input type="text"/> Mask: 0 <input type="text"/> | User_Define_b Port: <input type="text"/> Mask: 0 <input type="text"/> | User_Define_c Port: <input type="text"/> Mask: 0 <input type="text"/> | User_Define_d Port: <input type="text"/> Mask: 0 <input type="text"/> | |
| <p>Note:The mask defines which bit is ignored within the IP address bit 0 ~ bit 7. For example, UDP/TCP port = 65535 and mask = 5, this means 65531, 65534 and 65535 are all taken into account. UDP/TCP port = 65535 and mask = 0, this means only 65535 is taken into account.</p> <p style="text-align: center;">TCP/UDP port QoS function Not Override ▾</p> <p>Note:When the "override" item is selected, the Port_based, Tag_based, IP TOS_based, CoS listed above will be ignored.</p> | | | | | |
| <input type="button" value="Update"/> | | | | | |
| <p>The Class of Service for TCP/UDP port number allows the network administrator to assign the specific application to a priority queue.</p> <p>F-I-F-O: The incoming packet will be forwarded in first-in-first-out scheme.</p> <p>Discard: The incoming packet will be discarded at the source port.</p> <p>High: The incoming packet will be forwarded with the high priority.</p> <p>Low: The incoming packet will be forwarded with the Low priority.</p> | | | | | |

4.7 Security

Security -> MAC Address Binding

- Administrator
- PoE
- Port Management
- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
 - MAC Address Binding
 - MAC Address Scan
 - TCP/UDP Filter
 - Web Security
- Spanning Tree
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

MAC Address Binding

| Port No. | MAC Address |
|---|--|
| 1 | <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> <input type="button" value="Read"/> |
| Select Port 1 Binding Disable <input type="button" value="Update"/> | |

Note: If you enable the MAC address binding function, the address learning function will be disabled automatically.

| Port No. | Binding Status | Port No. | Binding Status |
|----------|----------------|----------|----------------|
| 1 | Disable | 6 | Disable |
| 2 | Disable | 7 | Disable |
| 3 | Disable | 8 | Disable |
| 4 | Disable | G1 | Disable |
| 5 | Disable | G2 | Disable |

Note: The MAC address of current management connection is 54:a0:50:54:41:d6 at port 9.

Security -> Scan MAC

The screenshot shows the POWER TONE web interface. The top header includes the logo and a status indicator with a grid of colored squares (green and grey) labeled 1 through 8 and G1, G2. On the left is a navigation menu with categories like Administrator, PoE, Port Management, VLAN Setting, Per Port Counter, QoS Setting, Security (with sub-items like MAC Address Binding, MAC Address Scan, TCP/UDP Filter, Web Security), Spanning Tree, DHCP Relay Agent, Backup/Recovery, Miscellaneous, SNMP Settings, and Logout. The main content area is titled "Scan MAC" and features a "Port Select" dropdown menu set to "1". Below this is a table with two columns: "MAC Address" and "Entry Status". The table contains one entry with the MAC address "84:E4:D9:00:09:A3" and an entry status of "dynamic". A "Refresh" button is located below the table.

Security -> TCP/UDP Filter

The screenshot shows the POWER TONE web interface for the "TCP_UDP Filter Configuration" page. The top header and navigation menu are identical to the previous screenshot. The main content area is titled "TCP_UDP Filter Configuration" and includes several configuration sections:

- Function Enable:** A dropdown menu set to "Disable".
- Port Filtering Rule:** A dropdown menu set to "negative". Below it is a note explaining that "negative" means the selected protocol will be dropped and other protocols will be forwarded.
- Protocol:** A grid of checkboxes for various protocols and ports, including FTP (20, 21), SSH (22), TELNET (23), SMTP (25), DNS (53), TFTP (69), HTTP (80, 8080), NEWS (119), SNMP (123), NetBIOS (137~139), IMAP (143, 220), SNMP (161, 162), HTTPS (443), XRD_RDP (3389), and four user-defined options (User_Define_a through d).
- Secure WAN port:** A grid of checkboxes for Port01 through Port07, and G1 and G2.

 An "Update" button is located at the bottom right of the configuration area. A note at the bottom states: "Note: The description of Secure WAN port is shown below." A callout box points to this note with the text: "The packet will be either dropped or forwarded. This is the secure WAN port."

Security -> Web Management Filter

POWER TONE

2 4 6 8
 1 3 5 7 G1 G2

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 MAC Address Scan
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 Web Security
 Spanning Tree
 DHCP Relay Agent
 Backup/Recovery
 Miscellaneous
 SNMP Settings
 Logout

Web Management Filter

State: Disable ▾

| | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| G1 | G2 | -- | -- | -- | -- | -- | -- |
| <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |

User select port which enable to access web management, unselect port can not access web managemnt

4.8 Spanning Tree

Spanning Tree -> STP Bridge Settings

POWER TONE

2 4 6 8
 1 3 5 7 G1 G2

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 Logout

Web Management Filter

State: Disable ▾

| | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| G1 | G2 | -- | -- | -- | -- | -- | -- |
| <input type="checkbox"/> | <input type="checkbox"/> | | | | | | |

User select port which enable to access web management, unselect port can not access web managemnt

Spanning Tree -> STP Port Settings

- Administrator
- PoE
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- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
- **Spanning Tree**
 - STP Bridge Settings
 - **STP Port Settings**
 - Loopback Detection
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

STP Port Settings

| STP Port Settings | | |
|---------------------------------------|----------------------|--------------------------------|
| Port No. | Priority (0~240) | RPC (1~200000000) 0=AUTO |
| ▼ | <input type="text"/> | <input type="text"/> |
| <input type="button" value="Submit"/> | | |
| Priority should be a multiple of 16 | | |

| STP Port Status | | | | | | |
|-----------------|--------|----------|-------|---------|-------------------|-----------------|
| Port No. | RPC | Priority | State | Status | Designated Bridge | Designated Port |
| 01 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| 02 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| 03 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| 04 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| 05 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| 06 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| 07 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| 08 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| G1 | Auto:0 | 0x80 | -- | Disable | -- | -- |
| G2 | Auto:0 | 0x80 | -- | Disable | -- | -- |

Spanning Tree -> Loopback Detection

- Administrator
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- Port Management
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- QoS Setting
- Security
- **Spanning Tree**
 - STP Bridge Settings
 - STP Port Settings
 - **Loopback Detection**
- DHCP Relay Agent
- Backup/Recovery
- Miscellaneous
- SNMP Settings
- Logout

Loopback Detection Settings

| | |
|---------------------------------------|-----------|
| Loopback Detect Function | Disable ▼ |
| Auto Wake Up | Disable ▼ |
| Wake-Up Time Interval | 10 sec ▼ |
| <input type="button" value="Submit"/> | |

| Port No. | Status |
|----------|--------|
| 01 | -- |
| 02 | -- |
| 03 | -- |
| 04 | -- |
| 05 | -- |
| 06 | -- |
| 07 | -- |
| 08 | -- |
| G1 | -- |
| G2 | -- |

4.10 DHCP Relay Agent

DHCP Relay Agent -> DHCP Relay Agent

| DHCP Relay Agent | |
|---------------------------------------|-----------|
| DHCP Relay State : | Disable ▾ |
| DHCP Relay Hops Count Limit (1-16): | 16 |
| DHCP Relay Option 82 State : | Disable ▾ |
| <input type="button" value="Update"/> | |

DHCP Relay Agent -> Relay Server

| DHCP Relay Agent | |
|---------------------|---|
| DHCP Server IP | <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> |
| DHCP Server IP List | |

DHCP Relay Agent -> VLAN MAP Relay Agent

4.11 Backup/Recovery

Allow the current configuration settings to be saved to a file (not including the password), and if necessary, you can restore configuration settings from the file.

Backup or restore the configuration file to or from your local drive.

Click **Download** to save the current settings to your disk.


Click **Browse** to browse your inventories for a saved backup settings file.

Click **Update** after selecting the backup settings file you want to restore.

Note: Switch will reboot after restore and all current configurations will be lost

4.12 Miscellaneous

Miscellaneous -> Miscellaneous Settings



| | | | |
|---|---|----|----|
| | | | |
| 2 | 4 | 6 | 8 |
| | | | |
| 1 | 3 | 5 | 7 |
| | | | |
| | | G1 | G2 |

- Administrator
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Output Queue Aging Time

| | |
|------------|---|
| Aging time | The output queue aging function allows the administrator to select the aging time of a packet stored in the output queue. A packet stored in the output queue for a long time will lower the free packet buffer, resulting in the poor utilization of the buffer and the poor switch performance. |
| Disable ▾ | |
| ms | |

VLAN Striding

| | |
|---------------|---|
| VLAN Striding | When this function is enabled, the switch will forward a uni-cast packet to the destination port. No matter whether the destination port is in the same VLAN group. |
| Disable ▾ | |

IGMP Snooping V1 & V2


| | |
|-------------------|--|
| IGMP Snooping | IGMP Snooping V1 & V2 function enable |
| Disable ▾ | |
| IGMP Leave Packet | Leave packet will be forwarded to IGMP router ports. |
| Disable ▾ | |

VLAN Uplink Setting

| | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Port 01 | Port 02 | Port 03 | Port 04 | Port 05 | Port 06 | Port 07 | Port 08 | Port 09 |
| <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 | <input type="radio"/> Uplink1 |
| <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 | <input type="radio"/> Uplink2 |
| Port 10 | | | | | | | | |
| <input type="radio"/> Uplink1 | | | | | | | | |
| <input type="radio"/> Uplink2 | | | | | | | | |

Clear Uplink1

4.13 SNMP Settings



| | | | |
|---|---|----|----|
| | | | |
| 2 | 4 | 6 | 8 |
| | | | |
| 1 | 3 | 5 | 7 |
| | | | |
| | | G1 | G2 |

- Administrator
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SNMP Settings

Community Settings

| Community Name | Access Right |
|---|--------------|
| public <input style="width: 80%;" type="text"/> | Read Only ▾ |
| <input style="width: 80%;" type="text"/> | Read Only ▾ |

SNMP Settings

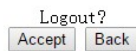
| | |
|--------------------|---|
| System Description | <input style="width: 80%;" type="text" value="IP1826"/> |
| System Contact | <input style="width: 80%;" type="text" value="Contact"/> |
| System Location | <input style="width: 80%;" type="text" value="Location"/> |

SNMP Trap Settings

| | |
|---------------------|--|
| Trap State | Enable ▾ |
| Enable Trap Server | Disable ▾ |
| Trap Server Address | <input style="width: 80%;" type="text"/> |
| Trap Server Status | <input style="width: 80%;" type="text"/> |

4.14 Logout

Click this to end this session



Note: If you close the web browser without clicking the **Logout** button, it will be seen as an abnormal exit and the login session will still be occupied.

4.15 PoE

PoE -> PoE Setting

This section provides PoE (Power over Ethernet) Configuration and PoE output status of PoE Switch.

| Function | Status |
|----------|---|
| Port No. | 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> |

| Port | Status | Class | Power Consumption(Watt) | Current (mA) |
|------|--------|-------|-------------------------|--------------|
| 1 | Enable | 0 | 8.4 | 173 |
| 2 | Enable | 0 | 3.3 | 68 |
| 3 | Enable | --- | 0.0 | 0 |
| 4 | Enable | --- | 0.0 | 0 |
| 5 | Enable | --- | 0.0 | 0 |
| 6 | Enable | --- | 0.0 | 0 |
| 7 | Enable | --- | 0.0 | 0 |
| 8 | Enable | --- | 0.0 | 0 |

Main Power consumption:The Statistics screen displays the total Watts usage of PoE Switch.

Status: Can enable or disable the PoE function.

Class: Class 0 is the default for PDs. However, to improve power management at the PSE, the PD may opt to provide a signature for Class 1 to 4.

The PD is classified based on power. The classification of the PD is the maximum power that the PD will draw across all input voltages and operational modes. A PD shall return Class 0 to 4 in accordance with the maximum power draw as specified by following Table.

| Class | Usage | Range of maximum power used by the PD |
|-------|----------|---------------------------------------|
| 0 | Default | 0.44 to 12.95 Watts |
| 1 | Optional | 0.44 to 3.84 Watts |
| 2 | Optional | 3.84 to 6.49 Watts |
| 3 | Optional | 6.49 to 12.95 Watts |
| 4 | Optional | 12.95 to 25.5 Watts |

Power Consumption (Watt): It shows the PoE supply Watts.

Current (mA): It shows the PoE device current Amp.

PoE -> PoE Power Delay

This section provides PoE Power Delay Configuration.

POWER TONE

2 4 6 8
1 3 5 7 G1 G2

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Backup/Recovery
Miscellaneous
SNMP Settings
Logout

PoE Power Delay

| Function | Delay Mode | Delay Time (0~300) |
|---------------------------------------|---|--------------------|
| | ----- | second |
| Port No. | 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> | |
| <input type="button" value="Update"/> | | |

| Port | Delay Mode | Delay Time (second) |
|------|------------|---------------------|
| 1 | Enable | 50 |
| 2 | Enable | 50 |
| 3 | Enable | 50 |
| 4 | Enable | 50 |
| 5 | Enable | 50 |
| 6 | Enable | 50 |
| 7 | Enable | 50 |
| 8 | Enable | 50 |

Delay Mode: Enable or disable the port's PoE Power Delay function.

Delay Time: Set PoE power delay time (0~300).

PoE -> PoE Scheduling

PoE Schedule user can configure a duration time for PoE port as default value does not provide power.

Note Please enable NTP and correct the System Time first.

POWER TONE

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1 3 5 7 G1 G2

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PoE Scheduling

| | |
|------------------|--------|
| Schedule on Port | 1 |
| Schedule Mode | Enable |
| Schedule AM/PM | A. M. |

Select all

| Hour | Mon. | Tue. | Wed. | Thu. | Fri. | Sat. | Sun. |
|------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 00 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 01 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 02 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 03 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 04 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 05 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 06 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 07 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 08 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 09 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

As default value, all PoE Schedule Profile functions are disabled

Please use mouse to click on the block about what time you want to supply power for PoE port.

PoE -> NTP Setting

This section provide the NTP Configuration of PoE Switch

POWER TONE

2 4 6 8
1 3 5 7 G1 G2

NTP Setting

| | |
|-------------|------------------|
| System Time | 15:41:16 |
| NTP Server | #1 202.118.1.81 |
| | #2 59.124.196.85 |
| Time Zone | GMT+8:00 |

Update

System Time: Display current time information

NTP Server: Allow assign #1 or #2 NTP server IP address manually

Time Zone: Allow select the time zone according to current location

PoE -> PoE Auto-check

The PoE Switch can be configured to monitor connected PD's status in real-time via ping action. Once the PD stops working and without response, the PoE Switch is going to restart PoE port power, and bring the PD back to work. It will greatly enhance the reliability and reduces administrator management burden.

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- PoE
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 - PoE Power Delay
 - PoE Scheduling
 - NTP Setting
 - PoE Autocheck
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- Security
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- Backup/Recovery
- Miscellaneous
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PoE Auto-check

| | | | | | |
|---------------|--------|------------------|---------------|--------------------------|--|
| Set Port No. | 1 | IP Address | 0 . 0 . 0 . 0 | | |
| Checking Time | 1 Min. | Reset Delay Time | 3 Sec. | Enable Checking Port. No | 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input checked="" type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> |

| Port No. | IP Address | Enable Status |
|----------|---------------|---------------|
| 1 | 0.0.0.0 | Off. |
| 2 | 0.0.0.0 | Off. |
| 3 | 0.0.0.0 | Off. |
| 4 | 192.168.1.206 | On. |
| 5 | 0.0.0.0 | Off. |
| 6 | 0.0.0.0 | Off. |
| 7 | 0.0.0.0 | Off. |
| 8 | 0.0.0.0 | Off. |

If you do not fill in autoping address, will have the following tips

The screenshot shows the same configuration page as above, but with an error message dialog box overlaid. The dialog box has a yellow warning icon and the text: "Please set auto-check IP address for port 1". The "Update" button is disabled. In the background, the "Enable Checking Port. No" field shows port 01 is checked.

Set Port No.: Select the port witch you want to set IP Address

IP Address: Allow assign IP address witch you want to monitor

Checking Time: Select time interval of ping action (1-10Min)

Reset Delay Time: Select time PD Reset time (1-3Seconds)

Enable Checking Port. No: Select the port witch you want to enable PoE Auto-check

-----THE END-----