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EDIMAX
NETWORKING PEOPLE TOGETHER

GS-5008E

User Manual

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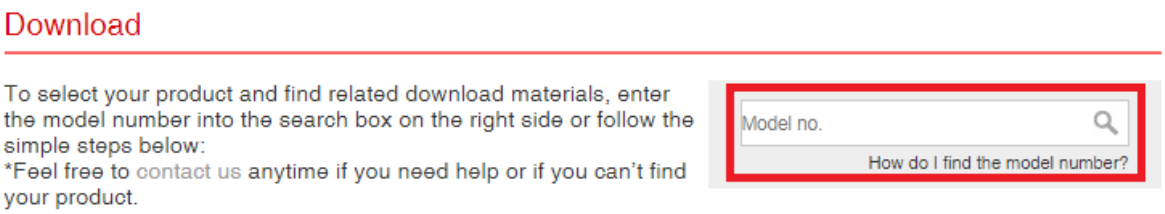
I. Product Information

The Edimax Pro GS-5008E web-smart switch equipped with 8 Gigabit Ethernet ports and rich web managed functions. This switch provides high-speed and reliable data transfer ideal for network connectivity in the home, small office, small-and-Medium business and enterprise environments.

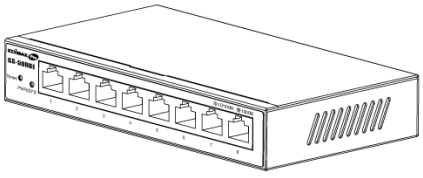
You can find all supporting documents from the link below or via QR Code:

https://www.edimax.com/download

(Once you've visited the Edimax official website, please enter model no. "GS-5008E" into the search box to search for your product.)



I-1. Package Contents

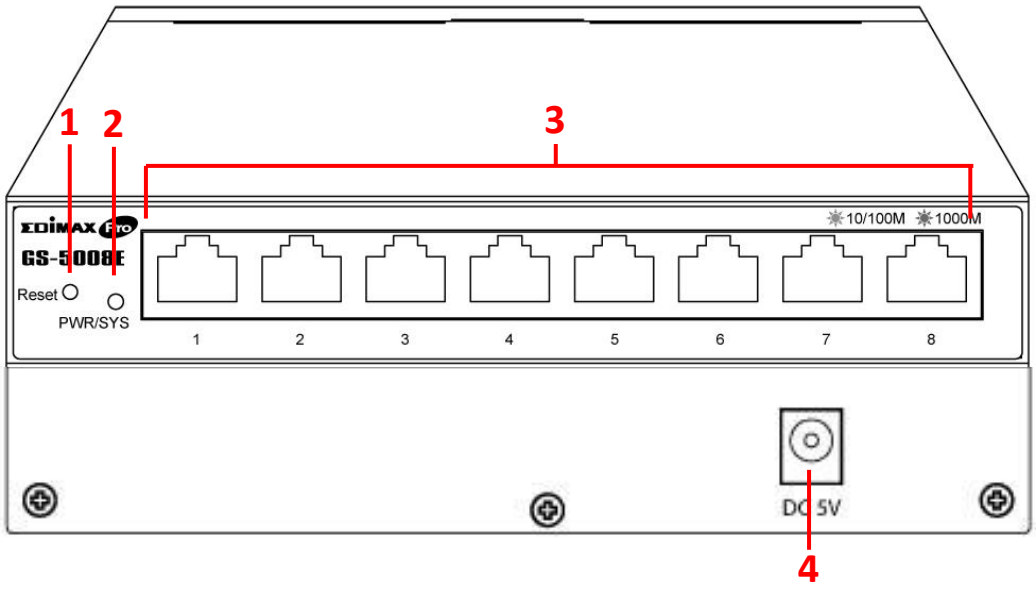


GS-5008E

Quick Installation Guide

Power Adapter (5V)

I-2. Hardware Interface



No.	Description
1	Reset
2	PWR/SYS
3	LAN Port x 8, LED (LINK/ACT)
4	DC Power Jack

I-3. LED Status

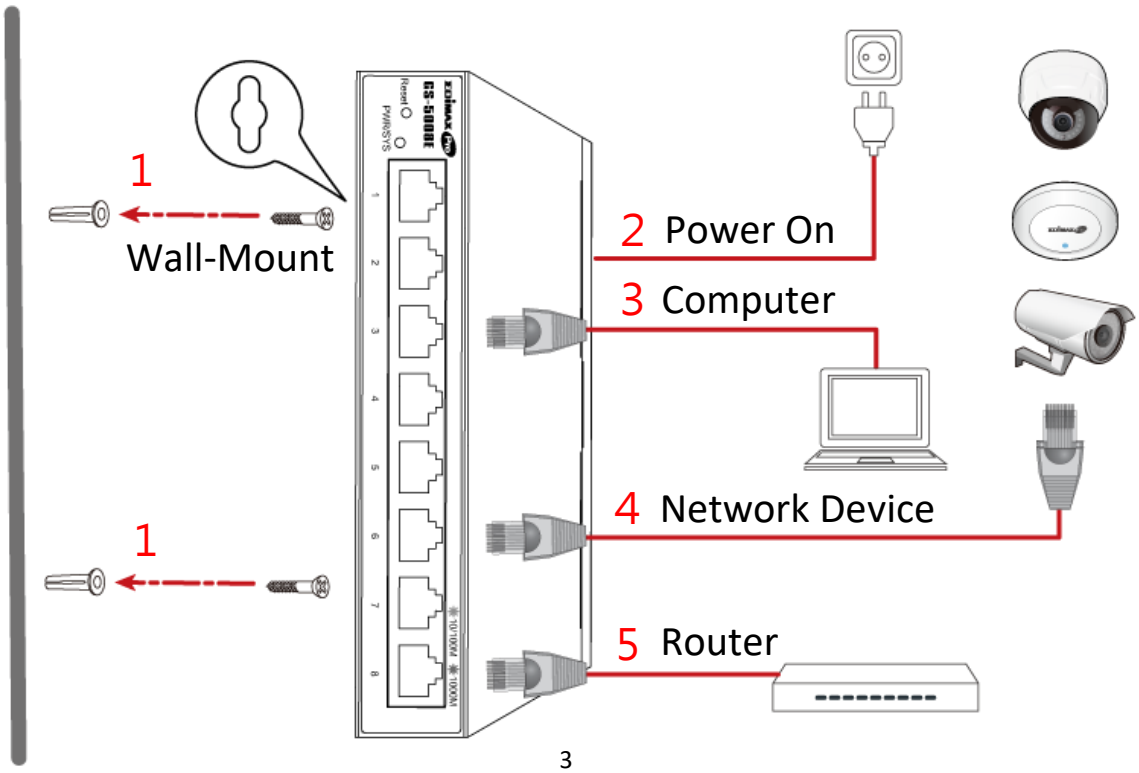
LED	Color	Status	Description
PWR/SYS	Green	On	The switch is powered on
		Flashing	The switch is booting up
		Off	Power is disconnected or failed
Port 1-8 (LINK/ACT)	Amber	On	The Port is connected, Link at 10/100M
		Flashing	Sending or receiving data
		Off	The Port is disconnected or link failure
	Green	On	The Port is connected, Link at 1000M
		Flashing	Sending or receiving data
		Off	The Port is disconnected or link failure

II. Installation

Read the following topics and perform the procedures in the correct order. Incorrect installation may cause damage to the product.

II-1 Connecting to Network

1. There are two ways to physically set up the switch.
   - Place the switch on a flat surface.
   - Wall-mount the switch. The product is designed with wall-mounted holes. (The wall-mounted mounting screws and accessories are not included.)
2. Connect the power adapter to the switch and the power outlet. (Note: Make sure that the "PWR" LED is green.)
3. Plug the standard Cat5e Ethernet cable into the LAN port and connect it to the computer and prepare for web-based configuration. (Note: Make sure that the "LAN" LED is green or amber.)
4. Connect any networking device to the switch via Ethernet cable. (Note: Make sure that the "LAN" LED is green or amber.)
5. Connect the router to the switch via Ethernet cable. (Note: Make sure that the "LAN" LED is green or amber.) The hardware installation is complete!



II-2 Starting the Web-based Configuration Utility

This section describes how to navigate the web-based switch configuration utility through web browser. **Be sure to disable any browser pop-up blocker.**

Browser Restrictions

- If you are using older versions of Internet Explorer, you cannot directly use an IPv6 address to access the device. You can, however, use the DNS (Domain Name System) server to create a domain name that contains the IPv6 address, and then use that domain name in the address bar in place of the IPv6 address.

- If you have multiple IPv6 interfaces on your management station, use the IPv6 global address instead of the IPv6 link local address to access the device from your browser.

II-3 Launching the Configuration Utility

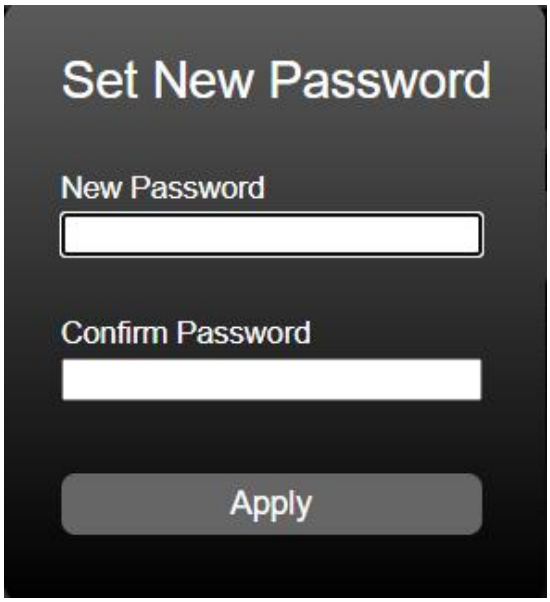
1. Make sure your computer is connected with the switch then open a web browser.

2. Enter the IP address of the switch you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter. Please make sure that your computer's IP address is in the same subnet as this switch. The default IP address is an IP address in the range of 192.168.2.X (X=2-254). You can modify the IP address of your computer if you need.

Default IP	192.168.2.1
Default User Name	admin
Default Password	1234

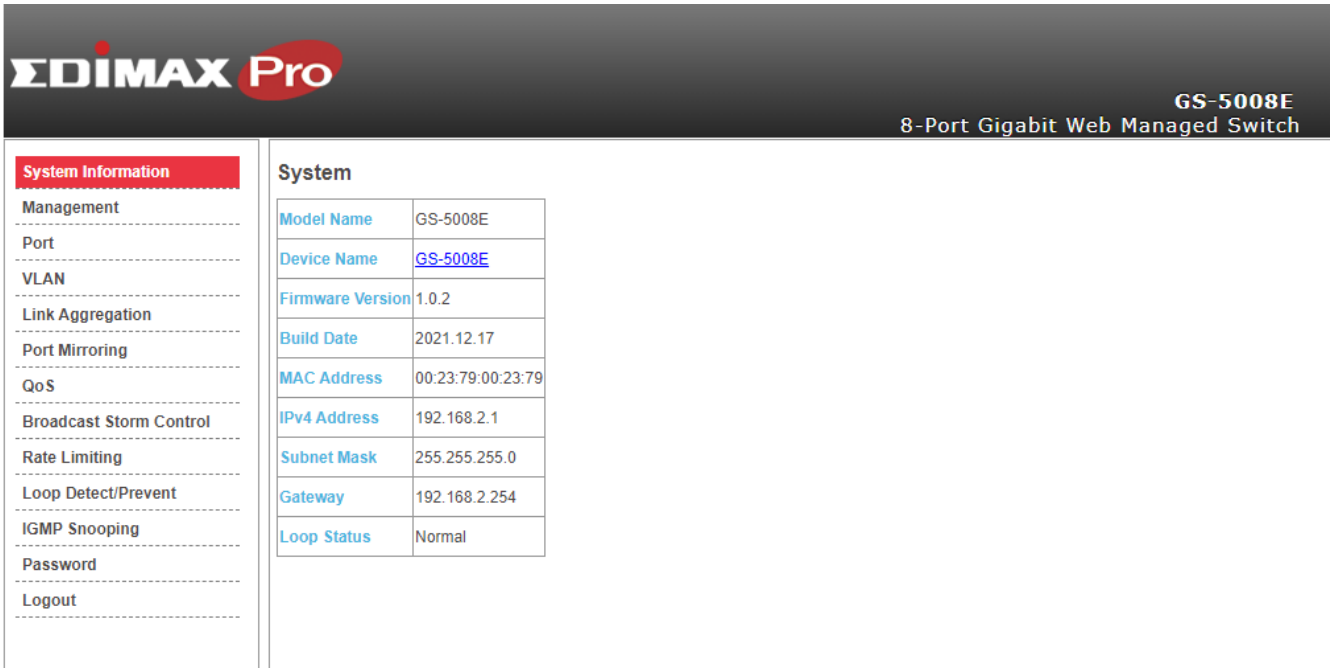
3. The default username is “admin” and the default password is “1234”.

4. The first time that you log in with the default username and password, you are required to set a new password.



III. Web-based Switch Configuration

The Web Smart switches provide rich functionalities. This chapter describes how to use the web-based management interface (Web UI) to configure the switch's features.



III-1 System Information

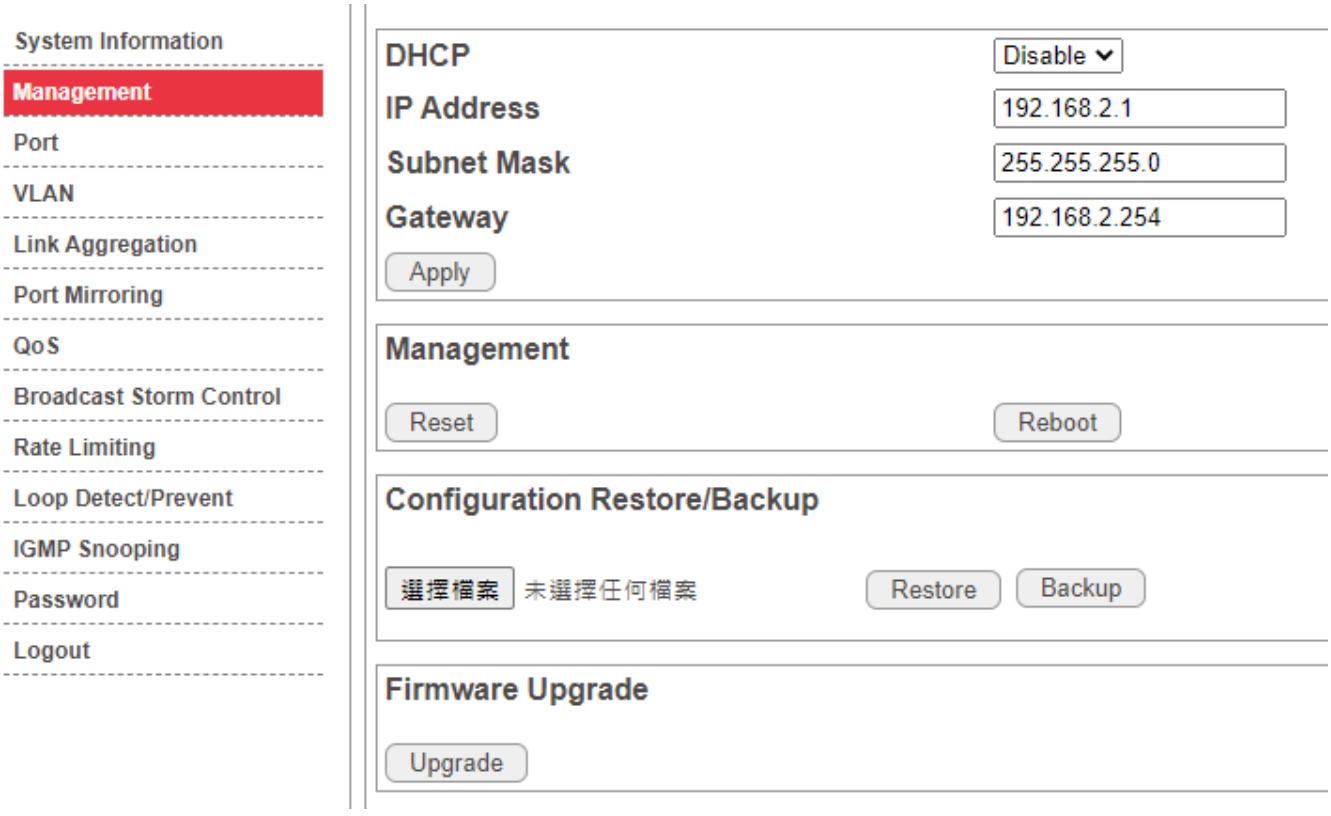
This page shows system current information. It also allows user to edit some system information.

To change the "**Device Name**", click on the table title to edit.
Enter the new device name and click the "Apply" button

Item	Description
Model Name	Model name of the switch.
Device Name	System name of the switch. The Device name can be modified.
Firmware Version	Current running firmware image version.
MAC Address	Base MAC address of the switch.
IPv4 Address	Current system IPv4 address.
Subnet Mask	A 32-bit number that masks an IP address
Gateway	TCP / IP protocol under the gateway
Loop Status	Displays whether or not loops exist in the network
PoE Status	Display PoE status

III-2 Management

Use the Management Access pages to upgrade firmware, restore or backup the configuration and configure settings of management access.



Item	Description
DHCP	Enable: Obtain an IP address from DHCP Server automatically. Disable: Use a static IP address
IP Address	Specify the switch static IP address on the static configuration.
Subnet Mask	Specify the switch subnet mask on the static configuration.
Gateway	Specify the gateway on the static configuration. The gateway must be in the same subnet with switch IP address configuration.

Item	Description
Management	Reboot: You can reboot the switch by pressing the “Reboot” button. Reset: You can reset the switch to default by pressing the “Reset “button.

Item	Description
Configuration Restore/Backup	Backup: Backup the configurations from this GS-5008E. Restore: Restore the configurations choosing configuration file from PC or NB.

Item	Description
Firmware Upgrade	Upgrade firmware by selecting the Firmware file from PC or NB.

III-3 Port

Use the Port pages to configure settings for switch port related features.

Port Status

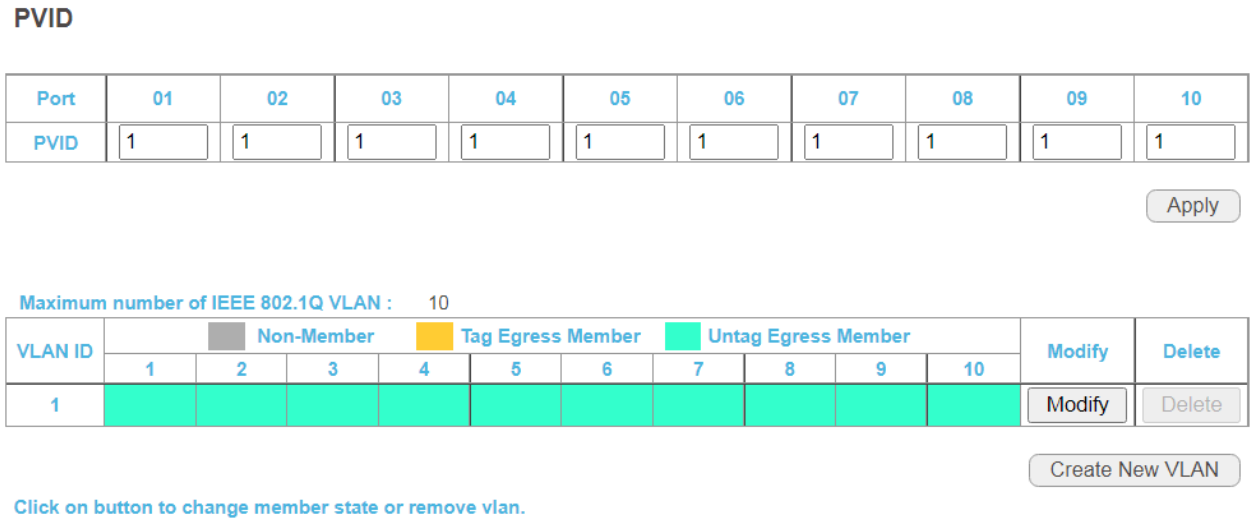
Port	Speed	Connection	TX(Pkts)	RX(Pkts)
1	Auto	Down	0	0
2	Auto	Down	0	0
3	Auto	Down	0	0
4	Auto	Down	0	0
5	Auto	Down	0	0
6	Auto	Down	0	0
7	Auto	Down	0	0
8	Auto	1000 Mbps	1429	2412
9	N/A	Down	0	0
10	N/A	Down	0	0

Clear Counters Apply

Item	Description
Port	Port number
Speed	Port speed capabilities. ●Auto: Auto speed with all capabilities. ●10M Half: Speed with 10Mbps ●10M Full: Speed with 20Mbps ●100M Half: Speed with 100Mbps ●100M Full: Speed with 200Mbps
Connection	Down: Displays port is not in use. Or link speed if it is in use.
TX(Pkts)	This field shows the number of packets transmitted on this port.
RX(Pkts)	This field shows the number of packets received on this port.
Clear Counters	Click to reset statistics data.

III-4 VLAN

This page allows user to configure each port of selected VLANs.



Item	Description
Apply	Click “Apply” to save the values.
Port	Designated port number.
PVID	Enter a Port VLAN ID for each port.
Create New VLAN	Click “Create New VLAN” to enter new VLAN settings.
VLAN ID	Virtual LAN ID.
Non-Member	Port is not a member of a VLAN.
Tag Egress Member	Tag outgoing packets of a port which is a member of the VLAN.
Untag Egress Member	Untag outgoing packets of a port which is a member of the VLAN.
Modify	Modify port settings of a specific VLAN.
Delete	Delete a specific VLAN.

NOTE: The PVID of a port is the VLAN id that will be assigned to any untagged frames entering the switch on that port (assuming the switch is using port-based VLAN classification). Each port can set a PVID ONLY.

III-5 Link Aggregation

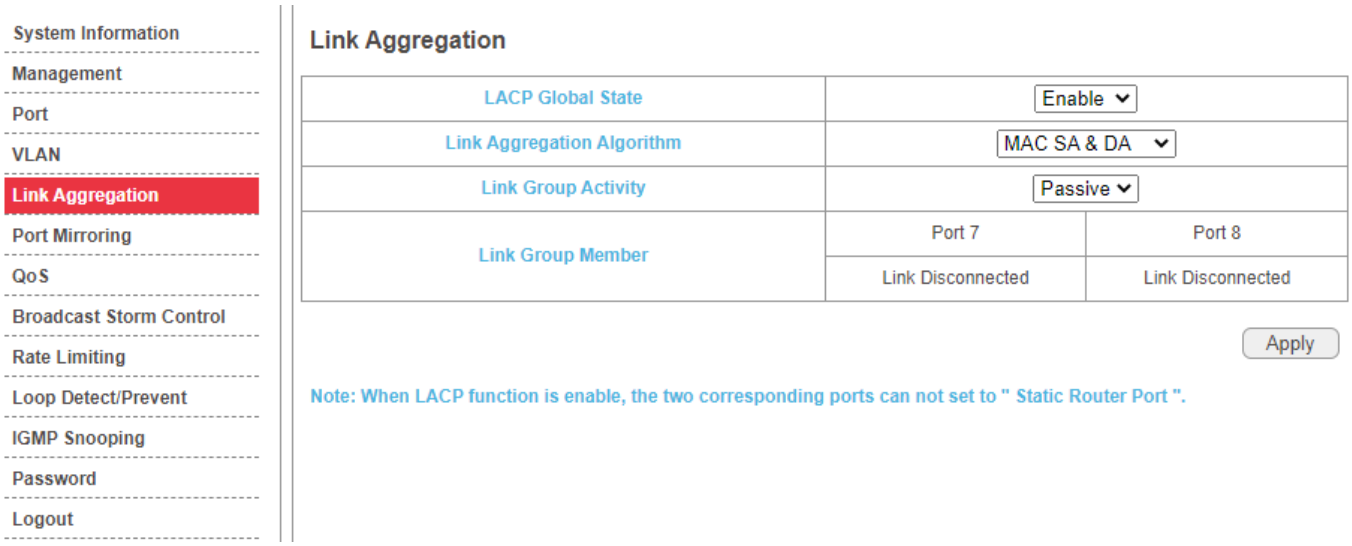
Link aggregation is the grouping of physical ports into one logical higher-capacity link. You may want to trunk ports if, for example, it is cheaper to use multiple lower-speed links than to under-utilize a high-speed, but more costly, single-port link.

The Switch supports the link aggregation IEEE802.3ad standard. This standard describes the Link Aggregation Control Protocol (LACP), which is a protocol that dynamically creates and manages trunk groups.

When you enable LACP link aggregation on a port, the port can automatically negotiate with the ports at the remote end of a link to establish trunk groups. LACP also allows port redundancy, that is, if an operational port fails, then one of the “standby” ports become operational without user intervention.

Please note that:

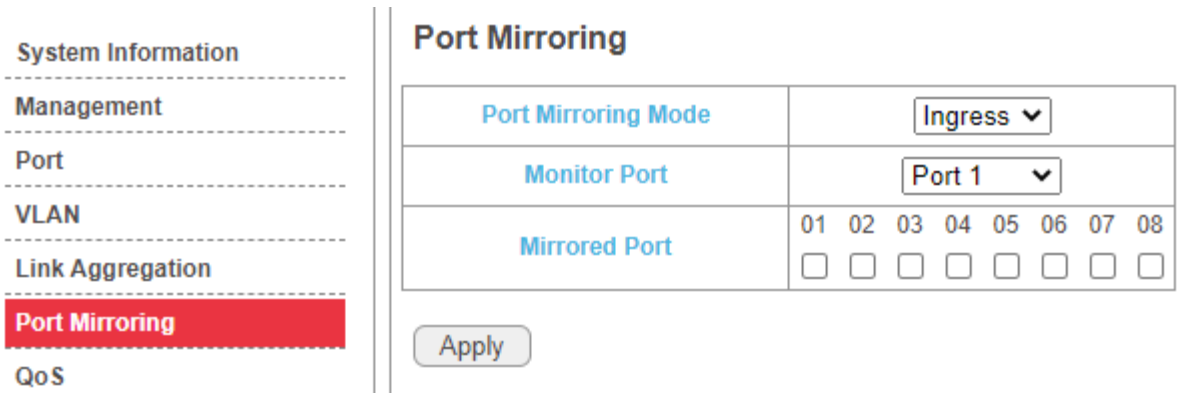
- **LACP only works on full-duplex links.**
- **All ports in the same trunk group must have the same media type, speed, duplex mode and flow control settings.**
- **Configure trunk groups or LACP before you connect the Ethernet switch to avoid causing network topology loops.**



Item	Description
LACP Global State	Select “Enable “or “Disable” to enable or disable Link Aggregation Control Protocol.
Link Aggregation Algorithm	Select the outgoing traffic distribution type. Packets from the same source and/or to the same destination are sent over the same link within the trunk. By default, the Switch uses the MAC SA & DA distribution type. MAC SA & DA: To distribute traffic based on a combination of the packet’s source MAC address and destination MAC address. MAC SA: To distribute traffic based on the packet’s source MAC address. MAC DA: To distribute traffic based on the packet’s destination MAC address.
Link Group Activity	Switch TX LACP control packet Passive or Active. By default, the Switch uses the Passive mode.
Link Group Member	The check box of ports would be checked after the port is added into the Link Group successfully.
Apply	Click Apply to save your changes.

III-6 Port Mirroring

Port mirroring selects the network traffic for analysis by a network analyzer. This is done for specific ports of the switch. You may configure the ports as source ports or configure one of the ports is as a destination port.



Item	Description
Enable Mirror	Enable/disable port mirroring.
Mirror Direction	Select the mirror direction: • Both(Ingress and Egress) • Ingress • Egress
Monitor Port	Select the mirror destination port.
Mirrored Port List	Choose the destination of the mirrored port.
Apply	Click Apply to save the changes.

III-7 QoS

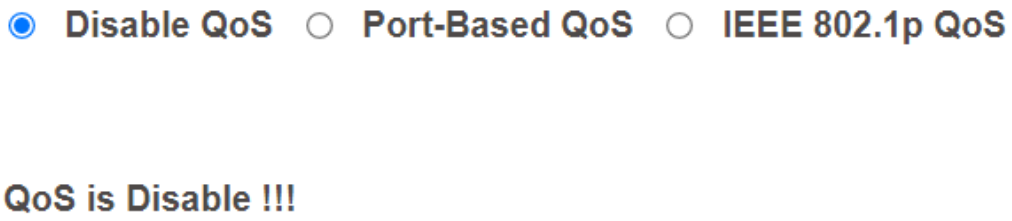
There are two options of QoS mechanism are provided for traffic forwarding: port-based QoS and 802.1p QoS. Users can switch to either of them on the Web page.

When Quality of Service (QoS) feature is enabled, traffic will be forwarded according to the predefined setting of port-based QoS or 802.1p QoS.

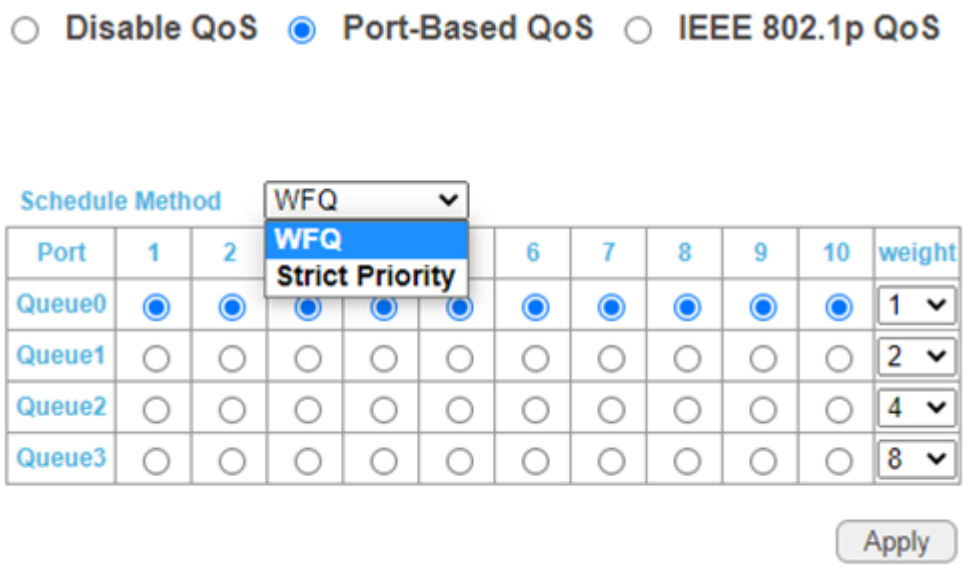
If QoS type is set as port-based, the priority is based on the incoming port of the traffic.

The current queue for each port is configured as below.

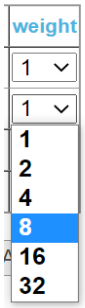
III-7-1. Disable QoS



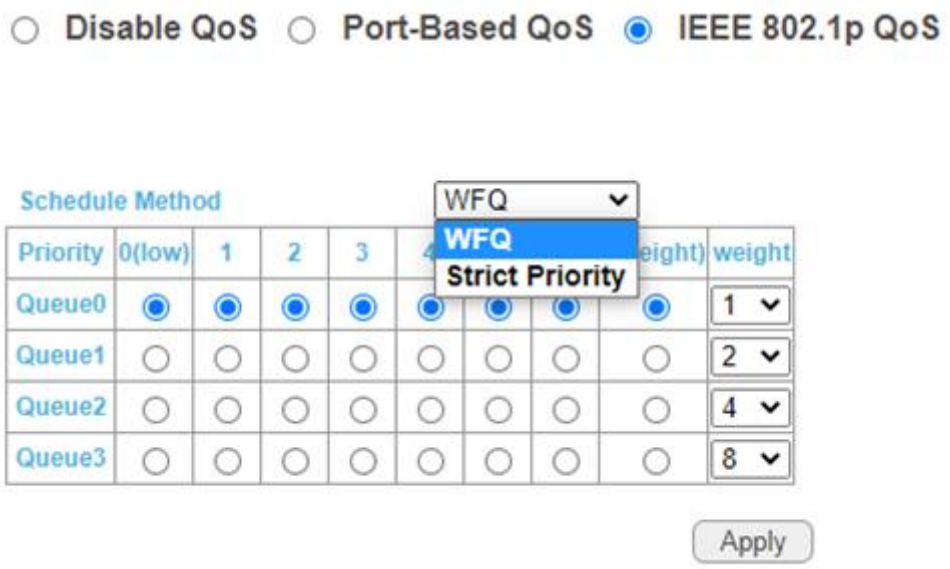
III-7-2. Port-Based QoS



Queue0 Low Priority
Queue1 Normal Priority
Queue2 Medium Priority
Queue3 High Priority

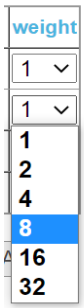
Item	Description
Schedule Method	WFQ(Weighted Fair Queue) Strict Priority
Weight (WFQ Method ONLY)	WFQ weight options: 
Apply	Click Apply to save the changes.

III-7-3. IEEE 802.1p QoS



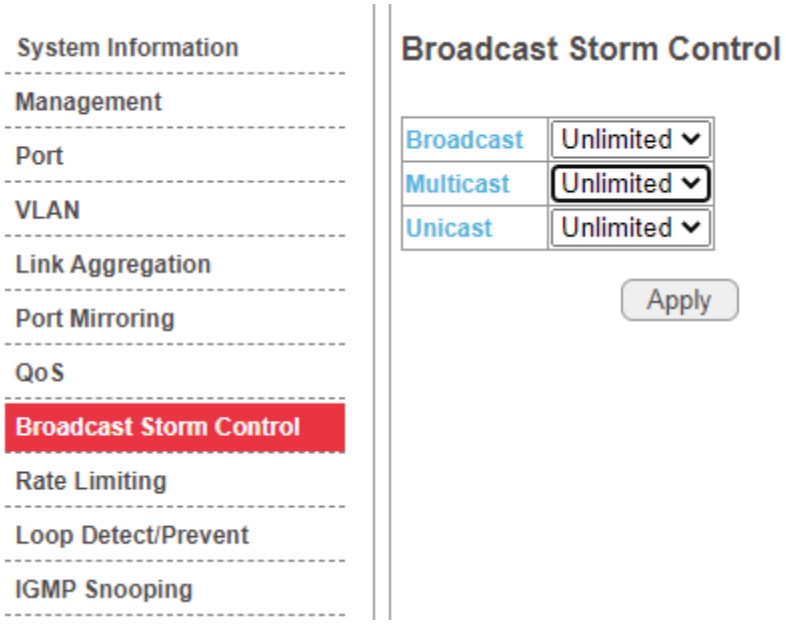
If QoS type is set to 802.1p, the priority is based on the incoming PCP field of the traffic. The current queue for each PCP is configured as below.

PCP value	Priority	Acronym	Traffic types
1	0 (lowest)	BK	Background
0	1 (default)	BE	Best effort
2	2	EE	Excellent effort
3	3	CA	Critical applications
4	4	VI	Video, < 100ms latency and jitter
5	5	VO	Voice, < 10 ms latency and jitter
6	6	IC	Internetwork control
7	7 (highest)	NC	Network control

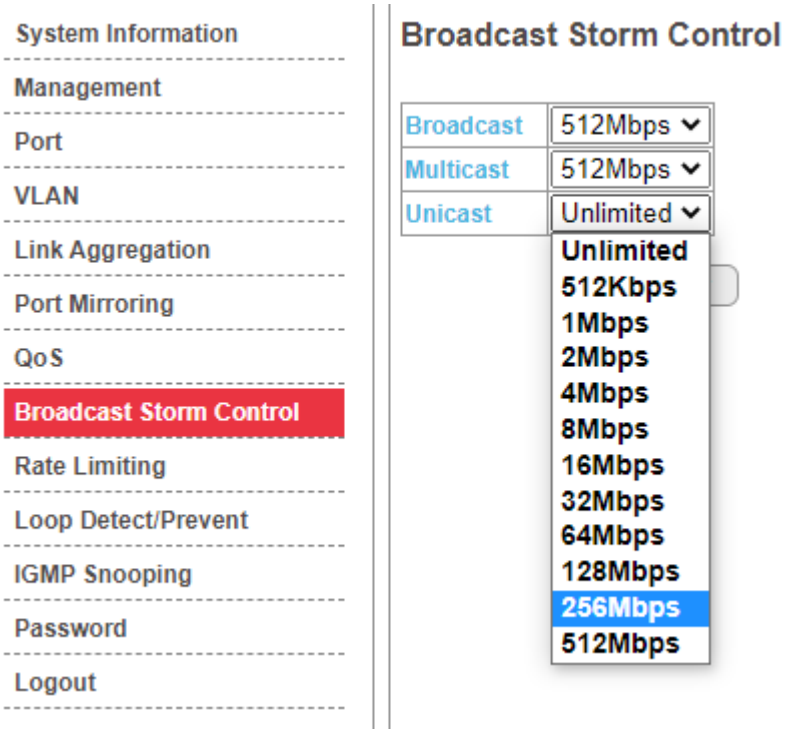
Item	Description
Schedule Method	WFQ(Weighted Fair Queue) Strict Priority
Weight (WFQ Method ONLY)	WFQ weight options: 
Apply	Click Apply to save the changes.

III-8 Broadcast Storm Control

A traffic storm occurs when packets flood the network ports, creating traffic and impacting network performance in a negative way. The broadcast storm control feature prevents network ports from being disrupted by a broadcast, multicast, or DLF (Destination Lookup Failure) traffic storm.



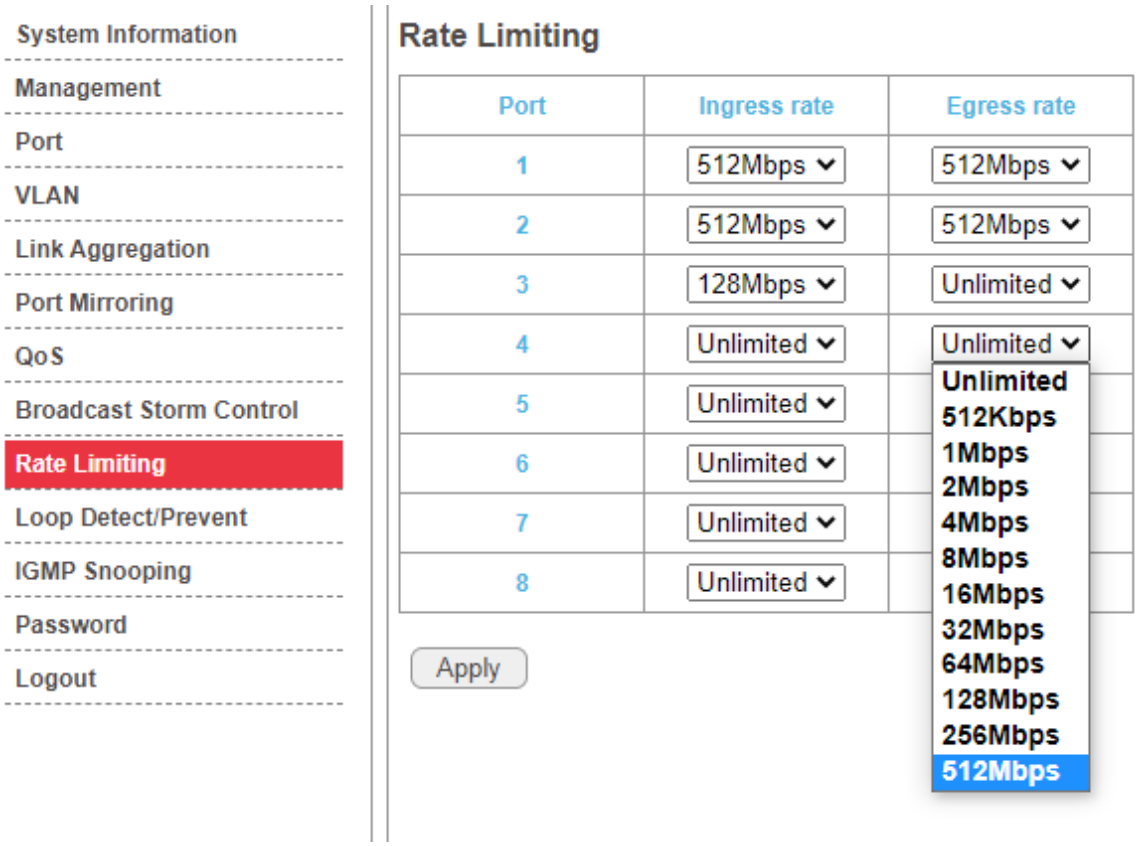
Select a limit in the drop down menus behind the storm control features and click “Apply” to apply the settings.



III-9 Rate Limiting

When the Rate Control feature is enabled, GS-5008E provides Ingress/Egress traffic Rate Control per port for broadcast traffic type. Enable this feature to reduce broadcast packets in your network.

Click the drop down menus to change the Ingress/Egress rate, and click “Apply” to apply the setting.



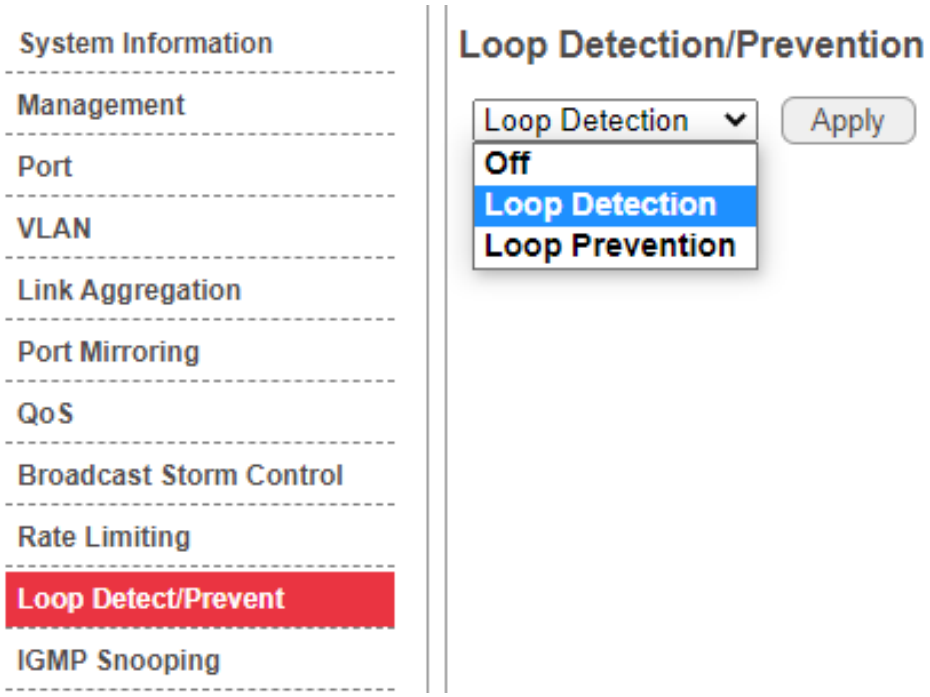
III-10 Loop Detect/Prevent

GS-5008E provides a Loop Protection feature for unmanaged environments. There are two kinds of mechanism are available, which are Loop Detection and Loop Prevention. Users can choose to enable Loop Detection or Loop Prevention.

The Loop Discovery frame uses the system MAC as source address. When the port receives the discovery frame and found that the source MAC is the same as system MAC, loop is determined.

When the Loop Detection feature is enabled and activated, the switch generates Broadcom proprietary tag frames (Loop Discovery Frames) at a programmed interval, and when it detects a loop, it gives a loop detected warning with a down port LED indication, and the system LED will be blinking. This feature does not repair the loop, but only issues a warning.

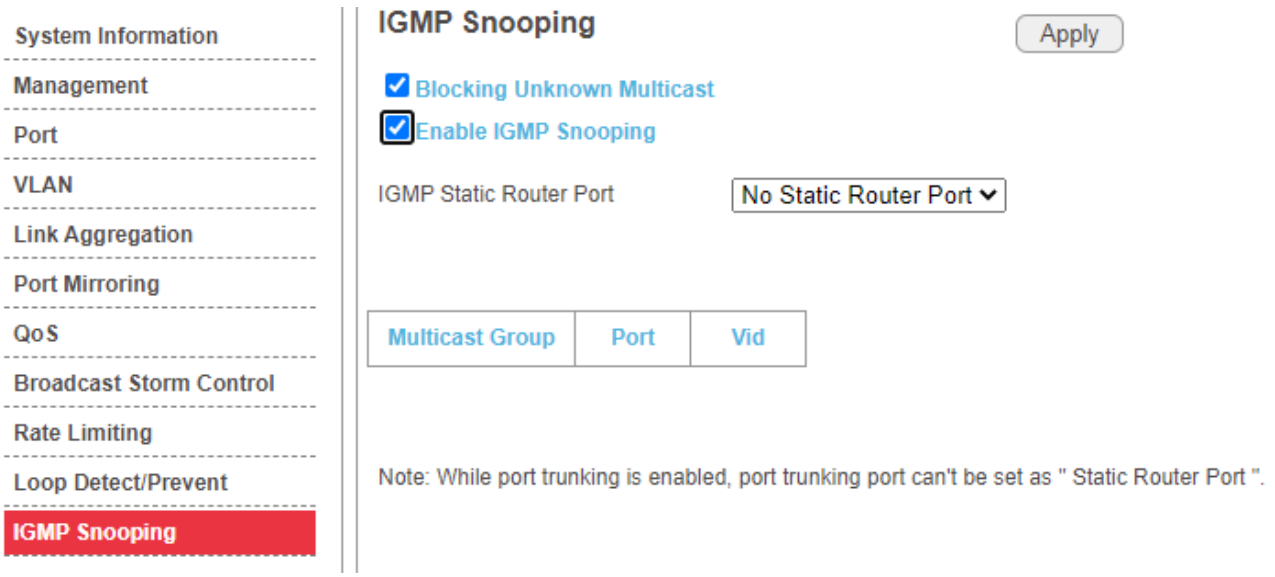
When Loop Prevention is enabled and loop is detected, this feature will disable loop ports and dim the port LED, and the system LED will be blinking. On the Loop Detect/Prevent page, select either “Off”, “Loop Detection” or “Loop Prevention” and click “Apply” to apply the settings.



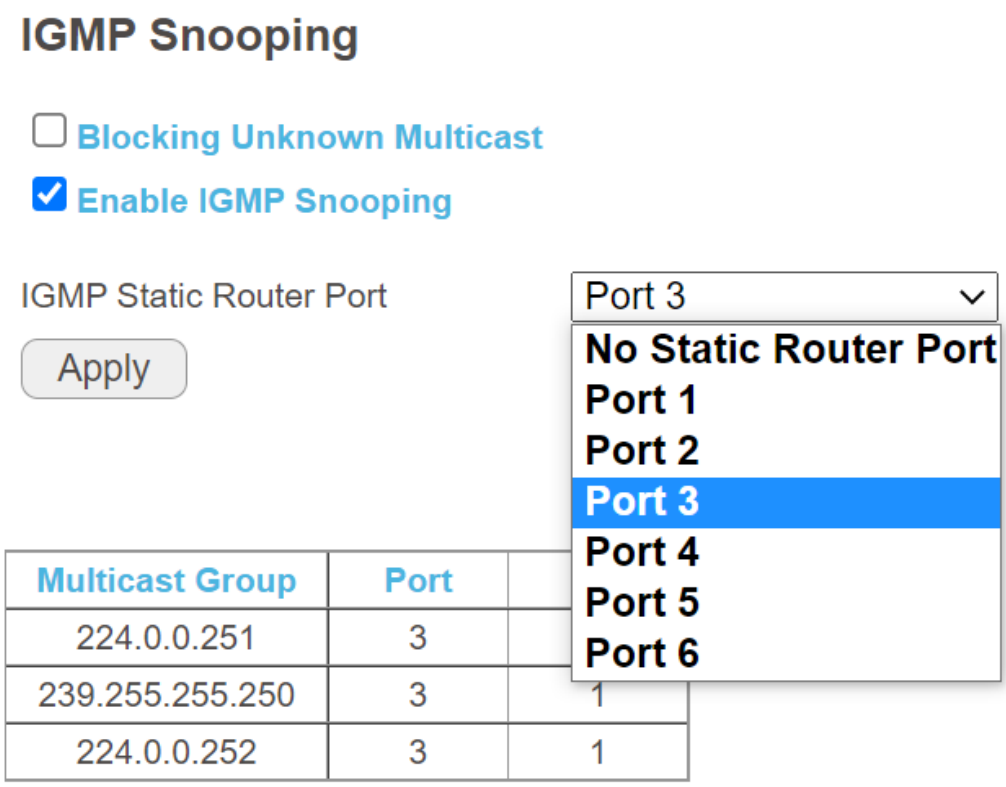
III-11 IGMP Snooping

IGMP snooping is the process of listening to Internet Group Management Protocol (IGMP) network traffic to control delivery of IP multicasts. Network switches with IGMP snooping listen in on the IGMP conversation between hosts and routers and maintain a map of which links need which IP multicast transmission. Multicasts may be filtered from the links which do not need them, conserving bandwidth on those links.

IGMP snooping allows a switch to only forward multicast traffic to the links that have solicited them. Snooping is therefore especially useful for bandwidth-intensive IP multicast applications such as IPTV.



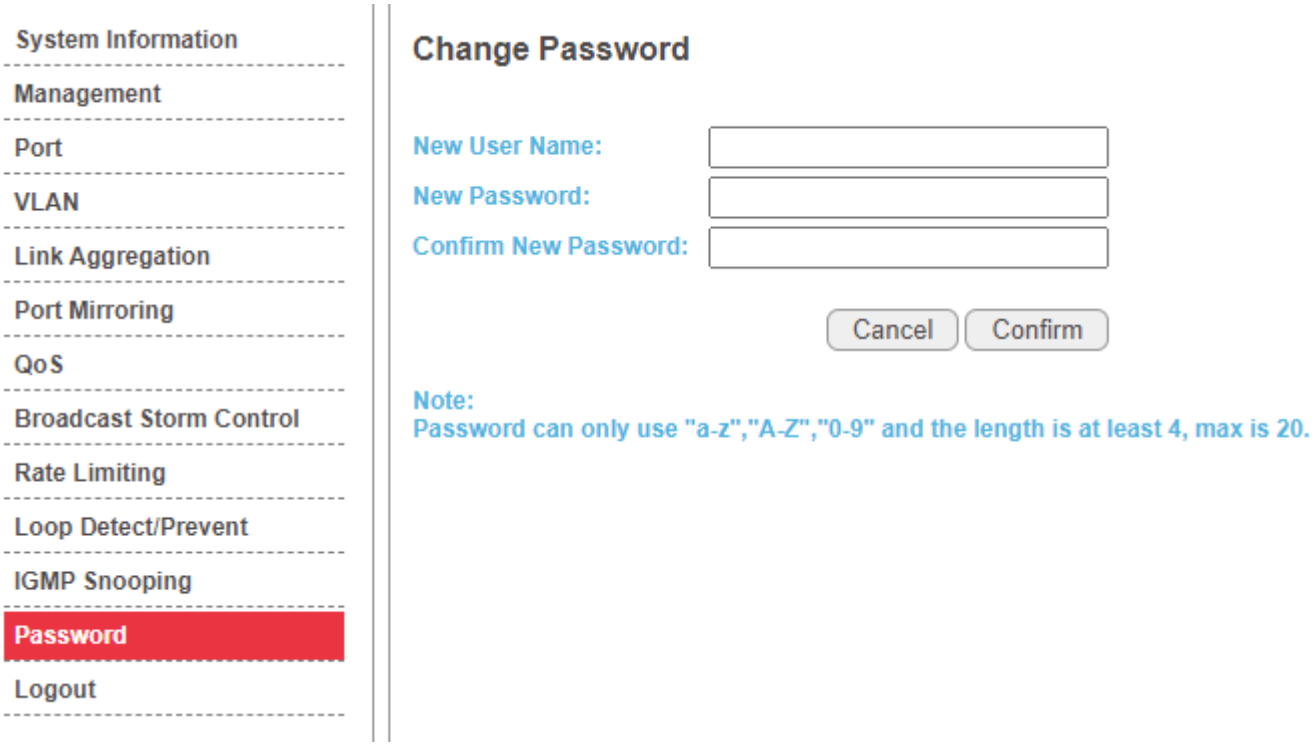
NOTE: While port trunking (LACP) is enabled, port trunking port can't be set as "Static Router Port



Function	Description
Blocking Unknown Multicast	Enable/disable Blocking Unknown Multicast filter
Enable IGMP Snooping	Enable IGMP Snooping and select the “IGMP Static Route port”.
Apply.	Click Apply to save the changes.

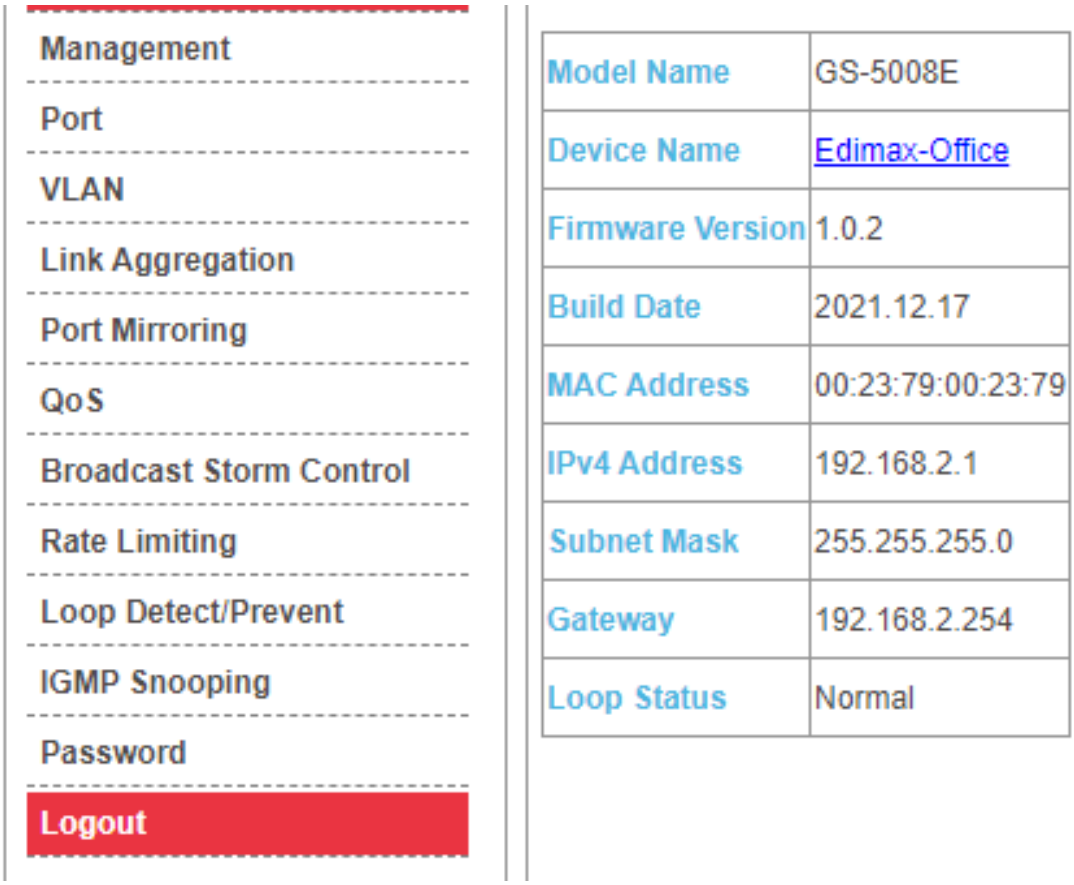
III-12 Password

In this page you can change the user name and password.
Click the “Confirm” button to save the changes.



III-13 Logout

Click the Logout button to exit the Web UI of GS-5008E.



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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the 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, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None

EU Declaration of Conformity

English: This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU.

Français: Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/30/EU.

Čeština: Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2014/30/EU.

Polski: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/30/EU.

Română: Acest echipament este în conformitate cu cerinţele esenţiale şi alte prevederi relevante ale Directivei 2014/30/EU.

Русский: Это оборудование соответствует основным требованиям и положениям Директивы 2014/30/EU.

Magyar: Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek (2014/30/EU).

Türkçe: Bu cihaz 2014/30/EU. direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.

Українська: Обладнання відповідає вимогам і умовам директиви 2014/30/EU.

Slovenčina: Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/30/EU.

Deutsch: Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/30/EU.

Español: El presente equipo cumple los requisitos esenciales de la Directiva 2014/30/EU.

Italiano: Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/30/EU.

Nederlands: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2014/30/EU.

Português: Este equipamento cumpre os requesitos essênciais da Directiva 2014/30/EU.

Norsk: Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2014/30/EU.

Svenska: Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2014/30/EU.

Dansk: Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante forordninger i direktiv 2014/30/EU.

suomen kieli: Tämä laite täyttää direktiivien 2014/30/EU. oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

FOR USE IN AT BE BG CZ DK DE EE IE EL ES FR HR IT CY LV LT LU HU MT NL PL PT RO SI SK FI SE UK UK(NI) TR IS LI NO CH RU UA

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

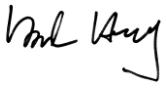
Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European R&TTE directives.

Equipment: 8-port Gigabit Ethernet Smart-Lite Switch
Model No.: GS-5008E

The following European standards for essential requirements have been followed:

Directives 2014/30/EU
EMC : EN 55032:2015+A11:2020
EN 55035:2017+A11:2020
Directives 2014/35/EU
Safety (LVD) : EN 62368-1:2014+A11:2017

Edimax Technology Europe B.V.		a company of:	
Fijenhof 2,		Edimax Technology Co., Ltd.	
5652 AE Eindhoven,		No. 278, Xinhu 1st Rd., Neihu Dist.,	
The Netherlands		Taipei City, Taiwan	
Date of Signature:	Nov., 2021	Date of Signature:	Nov., 2021
Signature:		Signature:	
Printed Name:	David Huang	Printed Name:	Hunter Chen
Title:	Director Edimax Technology Europe B.V.	Title:	Director Edimax Technology Co., Ltd.

CE

Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the United Kingdom EMC and Safety directives.

Equipment: 8-port Gigabit Ethernet Smart-Lite Switch
Model No.: GS-5008E

The following European standards for essential requirements have been followed:

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)
EMC : EN 55032:2015+A11:2020
EN 55035:2017+A11:2020
Electrical Equipment (Safety) Regulations 2016 (S.I. 2016/1101)
Safety (LVD) : EN 62368-1:2014+A11:2017

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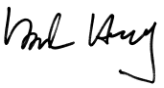
Fijenhof 2,		Edimax Technology Co., Ltd.	
5652 AE Eindhoven,		No. 278, Xinhu 1st Rd., Neihu Dist.,	
The Netherlands		Taipei City, Taiwan	
Date of Signature:	Nov., 2021	Date of Signature:	Nov., 2021
Signature:		Signature:	
Printed Name:	David Huang	Printed Name:	Hunter Chen
Title:	Director Edimax Technology Europe B.V.	Title:	Director Edimax Technology Co., Ltd.

UK CA