EDIMAX
NETWORKING PEOPLE TOGETHER

GS-5208PLG V2

User Manual

05-2021 / v1.0

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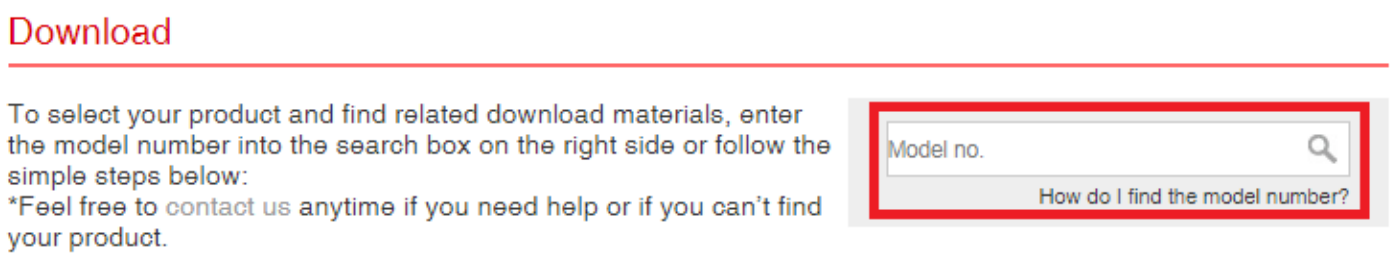
I. Product Information

The Edimax Pro GS-5208PLG V2 is a web-smart switch with 8 Gigabit PoE+ and 2 Gigabit SFP slots. Designed for medium to small network environments, its standard 19-inch 1U rack-mount brackets allow for integration with the most widely used mounting systems on the market. The Edimax GS-5208PLG V2 is a superb choice to boost your network environment's performance and efficiency.

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

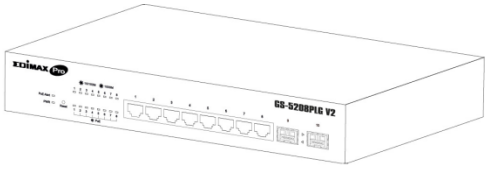
https://www.edimax.com/download

(Once you've visited the Edimax official website, please enter the model no. "GS-5208PLG V2" into the search box to search for your product.)

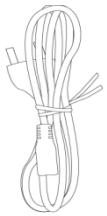


I-1. Package Content

Before start using this product, please check if there is anything missing in the package, and contact your dealer to claim the missing item(s):



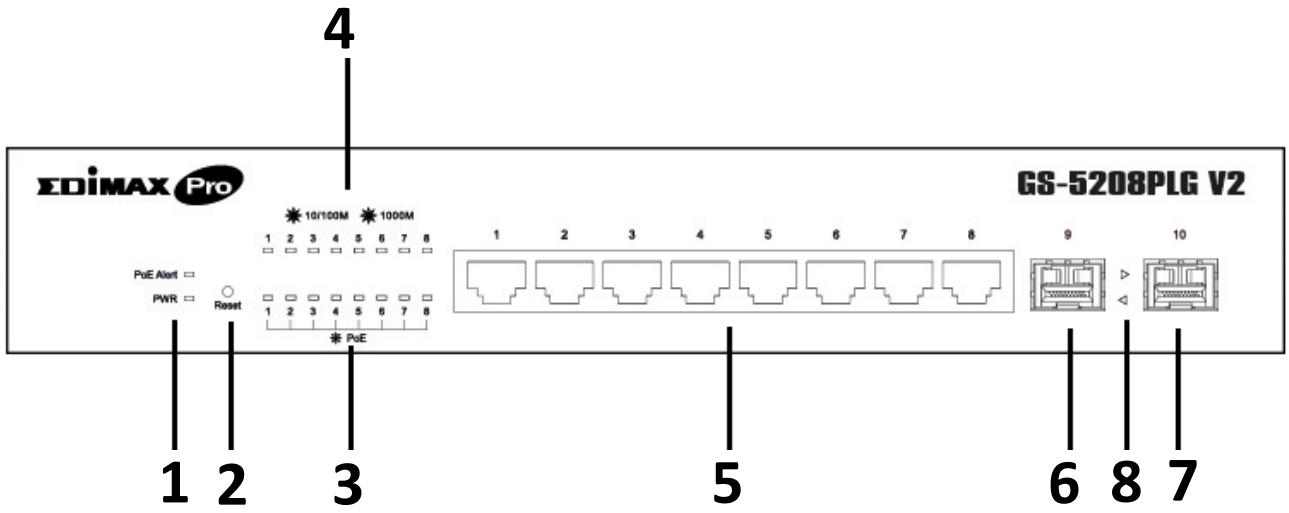
GS-5208PLG V2



Power Cord

Rack-Mount Kit & Screws

I-2. Hardware Overview



No.	Descriptions
1	LED (PoE Alert, PWR)
2	Reset Button
3	LED (PoE)
4	LED (Link/Act)
5	PoE Ports (1~8)
6 & 7	SFP Port (9~10)
8	LED (SFP)

I-3. LED Status

Function	Status	Description
PWR	On (**Green**)	Power on
	Off	Power off
	Blinking	System boot up
PoE Alert	On (**Green**)	Total PoE power consumed is under PoE power budget
	Off	Total PoE power consumed is under PoE power budget
Link/ACT (1-8 port)	On (**Green**)	Link at 1000M
	Blinking (**Green**)	Sending or receiving data
	On (**Amber**)	Link at 10/100M
	Blinking (**Amber**)	Sending or receiving data
	Off	Port disconnected or link fail
SPF (9-10 port)	On (**Green**)	1000FX is connected
	Blinking (**Green**)	Sending or receiving data
	Off	Port disconnected or link fail
PoE	On (**Green**)	Feeding power to PoE devices
	Off	PoE function is not active

II. Installation

This chapter describes how to install and connect your Edimax Switch. Read the following topics and perform the procedures in the correct order. Incorrect installation may cause damage to the product.

II-1. Mounting the Switch

There are two ways to physically set up the switch.

- Place the switch on a flat surface. To place the switch on a desktop, install the four rubber feet (included) on the bottom of the switch.
- Mount the switch in a standard rack (1 rack unit high).

II-1-1. Placement Tips

- Ambient Temperature — To prevent the switch from overheating, do not operate it in an area that exceeds an ambient temperature of 122°F (50°C).
- Air Flow — Be sure that there is adequate air flow around the switch.
- Mechanical Loading — Be sure that the switch is level and stable to avoid any hazardous conditions.
- Circuit Overloading — Adding the switch to the power outlet must not overload that circuit.

Follow these guidelines to install the switch securely.

- Put the switch in a stable place such as a desktop, to avoid it falling.
- Ensure the switch works in the proper AC input range and matches the voltage labeled.
- Ensure there is proper heat dissipation from and adequate ventilation around the switch.
- Ensure the switch's location can support the weight of the switch and its accessories.

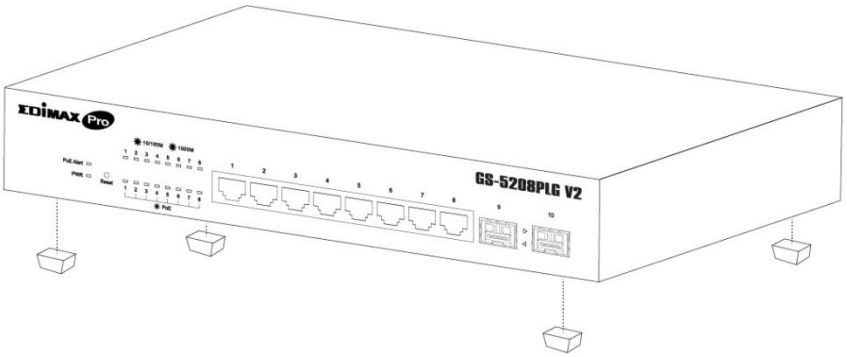


Figure 4 - Desktop Installation

II-1-2. Rack Mounting

You can mount the switch in any standard size, 19-inch (about 48 cm) wide rack. The switch requires 1 Rack Unit (1U) of space, which is 1.75 inches (44.45 mm) high.

For stability, load the rack from the bottom to the top, with the heaviest devices on the bottom. A top-heavy rack is likely to be unstable and may tip over.

When mounting smaller switch products into a standard 19-inch rack, a pair of extension brackets (sometimes referred to as ears) are needed to adapt the switch to the rack size.

These extension brackets are mounted on the switch using the screws provided in the kit, and have two holes that are used to then screw the switch into the rack.

An example of one type of these extension brackets is shown in the following figure.

A common problem that occurs during rack mounting is the distance between the screw holes on the rack. Some racks are made with a uniform distance between all of the holes, and others have the holes organized into groups (see photo on the next page for an example).

When organized into groups, the switch must be placed in the rack so that the holes in the extension brackets line up correctly.

1. Align the mounting brackets with the mounting holes on the switch's side panels and secure the brackets with the screws provided.

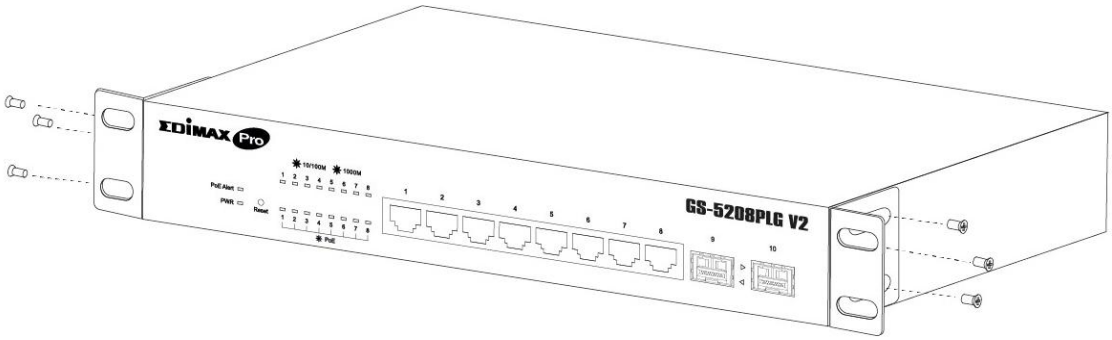


Figure 5 – Bracket Installation

2. Secure the switch on the equipment rack with the screws provided.

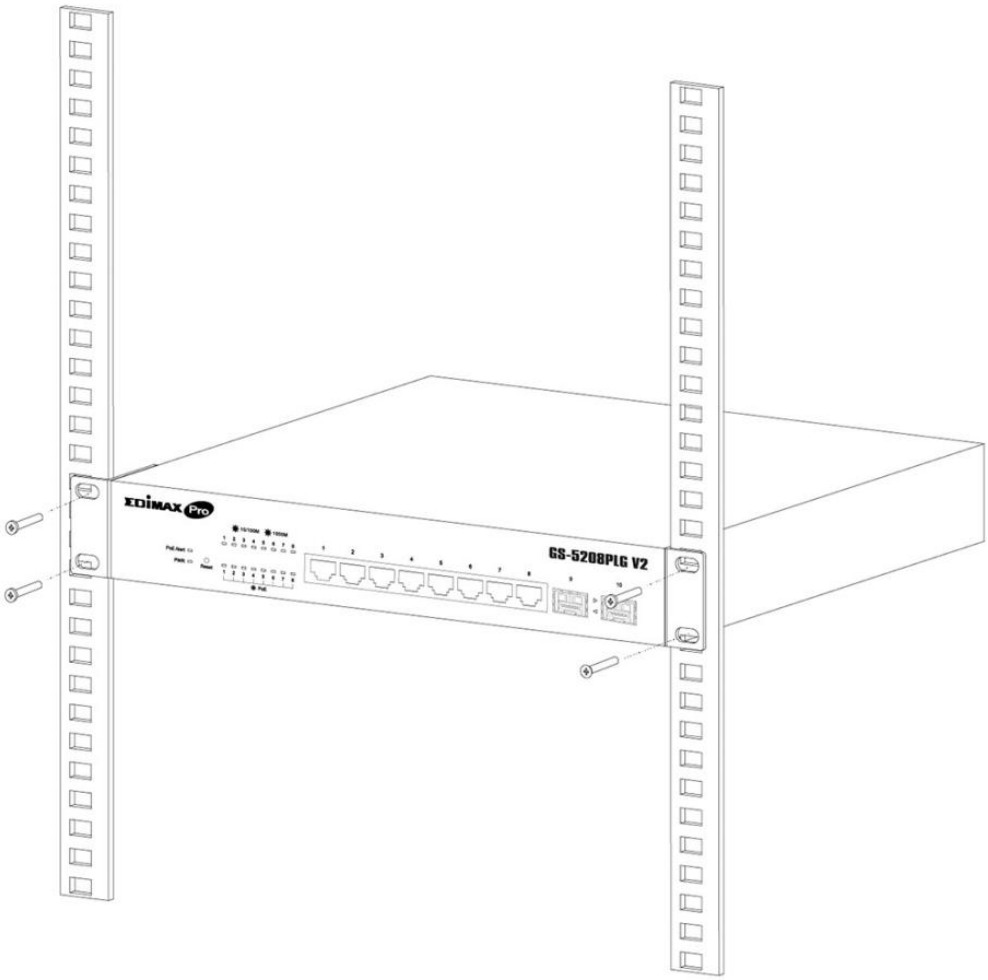


Figure 6 - Rack Installation

III.Getting Started

This section provides an introduction to the web-based configuration utility, and
covers the following topics:

- Powering on the device
- Connecting to the network
- Power over Ethernet (PoE) considerations
- Starting the web-based configuration utility

III-1. Connecting to Power

Power down and disconnect the power cord before servicing or wiring a switch.

Do not disconnect modules or cabling unless the power is first switched off. The device only supports the voltage outlined in the type plate. Do not use any other power components except those specifically designated for the switch.
Disconnect the power cord before installation or cable wiring.

The switch is powered by the AC 100-240 V 50/60Hz internal high-performance power supply. It is recommended to connect the switch with a single-phase three-wire power source with a neutral outlet, or a multifunctional computer professional source.
Connect the AC power connector on the back panel of the switch to the external power source with the included power cord, and check the power LED is on.

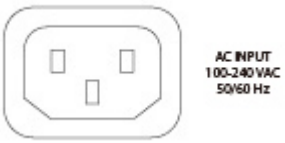


Figure 7 - Rear View AC Power Socket

III-2. Connecting to Network

To connect the switch to the network:

1. Connect an Ethernet cable to the Ethernet port of a computer
2. Connect the other end of the Ethernet cable to Port 1-8 of the switch. The LED of the port lights if the device connected is active.

Connect the switch to end nodes using a standard Cat5e Ethernet cable to connect the switch to end nodes as shown in the illustration below.
Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.

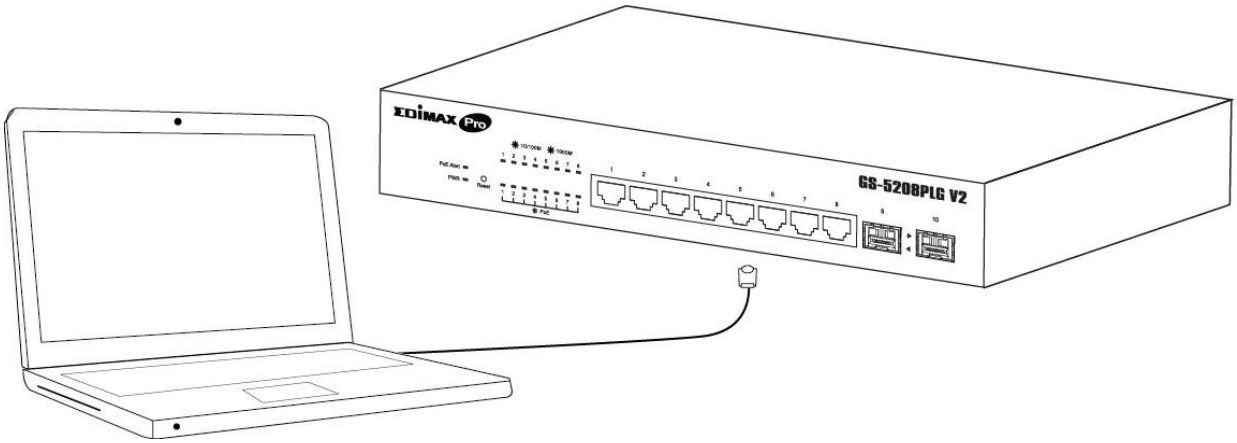


Figure 8 - PC Connect

III-3. Starting the Web-based Configuration Utility

This section describes how to navigate the web-based switch configuration utility.
Be sure to disable any 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.

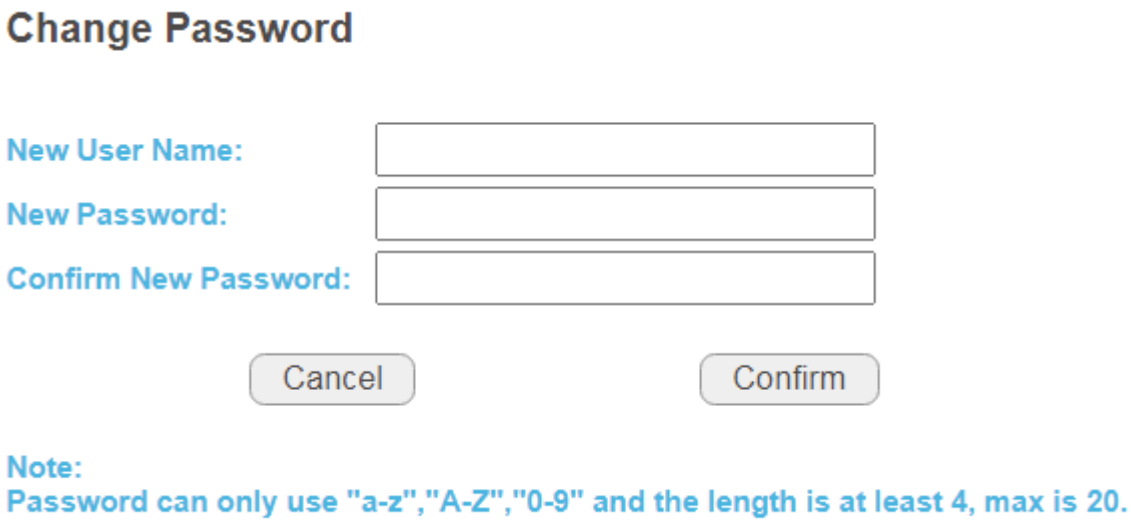
- If you have multiple IPv6 interfaces on your management station, use the IPv6 global address instead of the IPv6 link local address to access the device from your browser.

Launching the Configuration Utility

To open the web-based configuration utility:

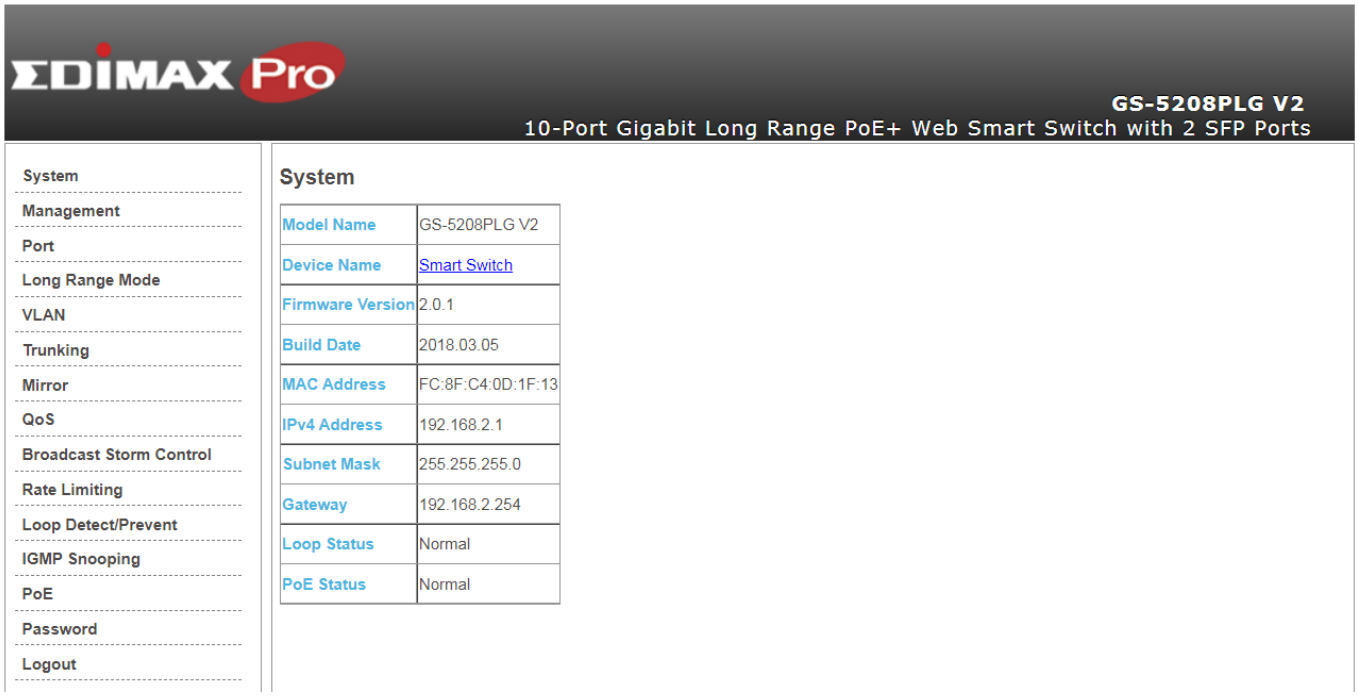
1. Open a Web browser.
2. Enter the IP address of the device you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter.
3. The default username is “admin” and the default password is “1234”.

4. The first time that you log in with the default username and password, you are required to enter a new User name and Password.
   Click the “Confirm” button to continue.



IV. 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.
For the purposes of this manual of GS-5208PLG v2, the user interface is separated into fifteen sections, as shown in the following figure:



IV-1. System

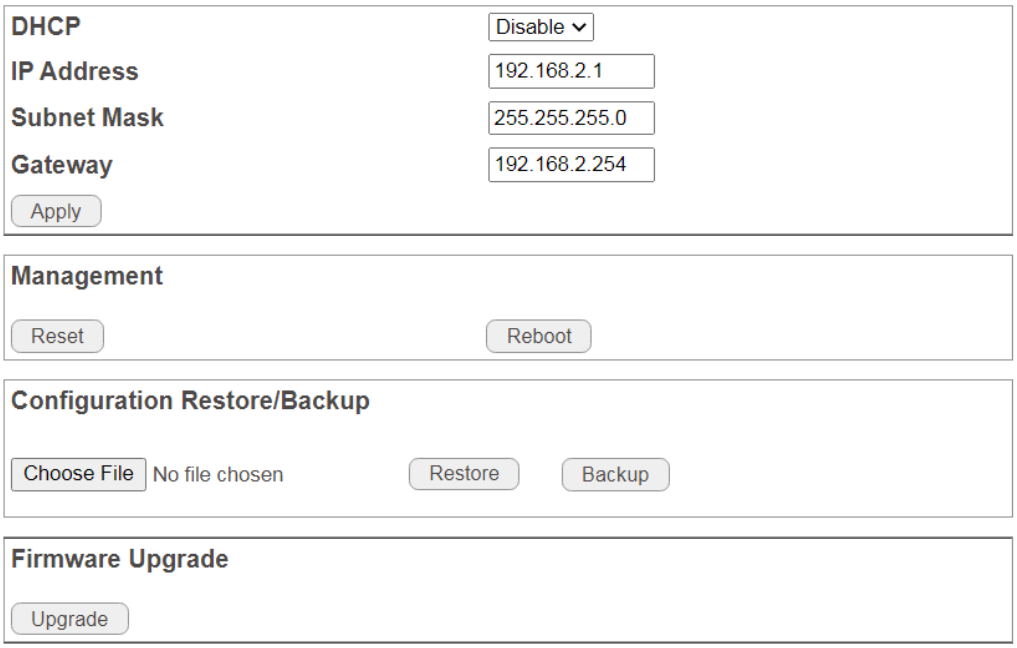
This page shows system current information. It also allows user to edit some system information.

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. This name will also use as CLI prefix of each line. (“Switch>” or “Switch#”).
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

IV-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-5208PLG V2. 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.

IV-3. Port

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

Port Status

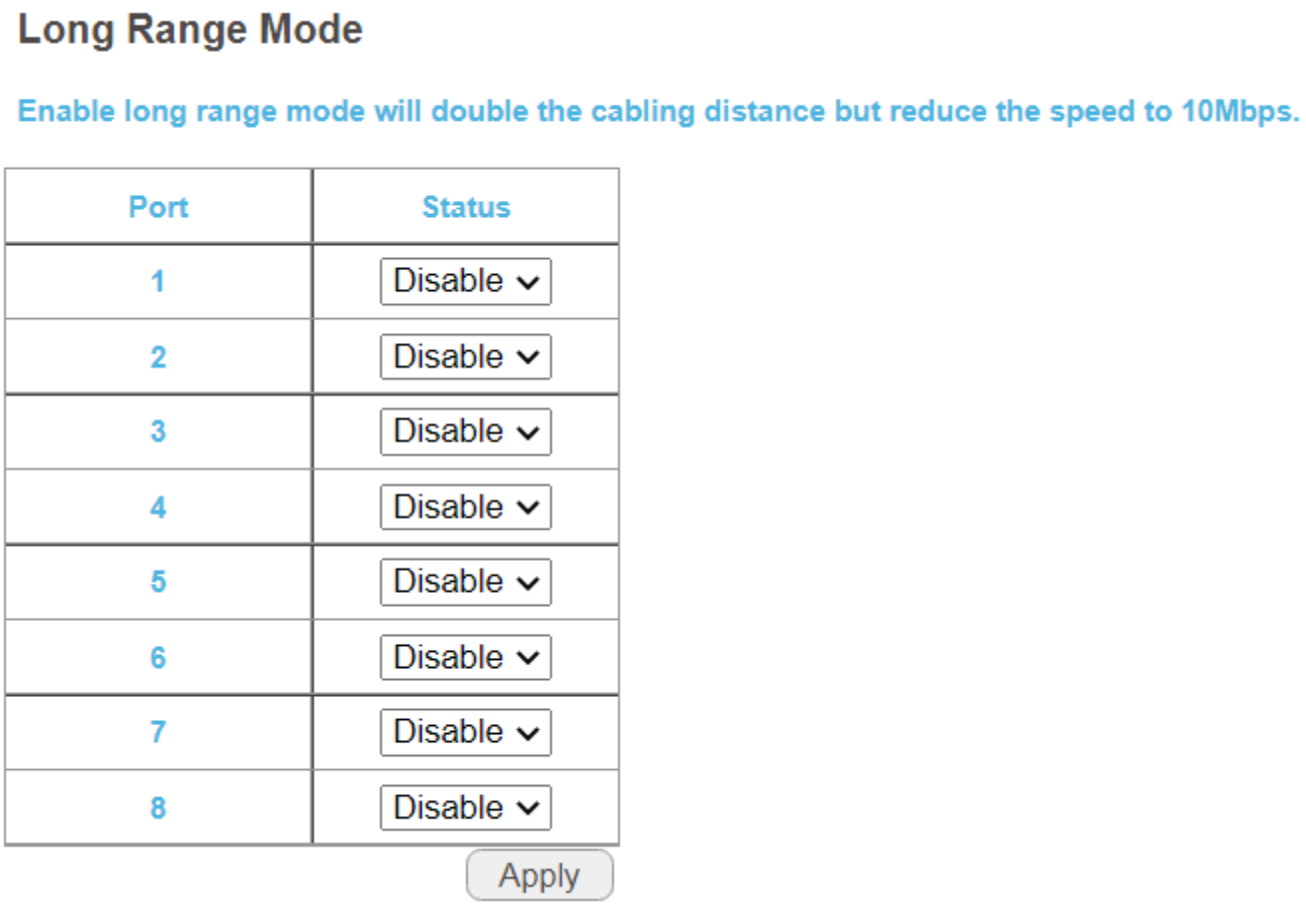
Port	Speed	Connection	TX(Pkts)	RX(Pkts)
1	Auto	Down	0	0
2	Auto	Down	0	0
3	Auto	Down	0	0
4	Auto	Down	0	0
5	Auto	Down	0	0
6	Auto	Down	0	0
7	Auto	Down	0	0
8	Auto	1000 Mbps	1429	2412
9	N/A	Down	0	0
10	N/A	Down	0	0

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.

IV-4. Long Range Mode

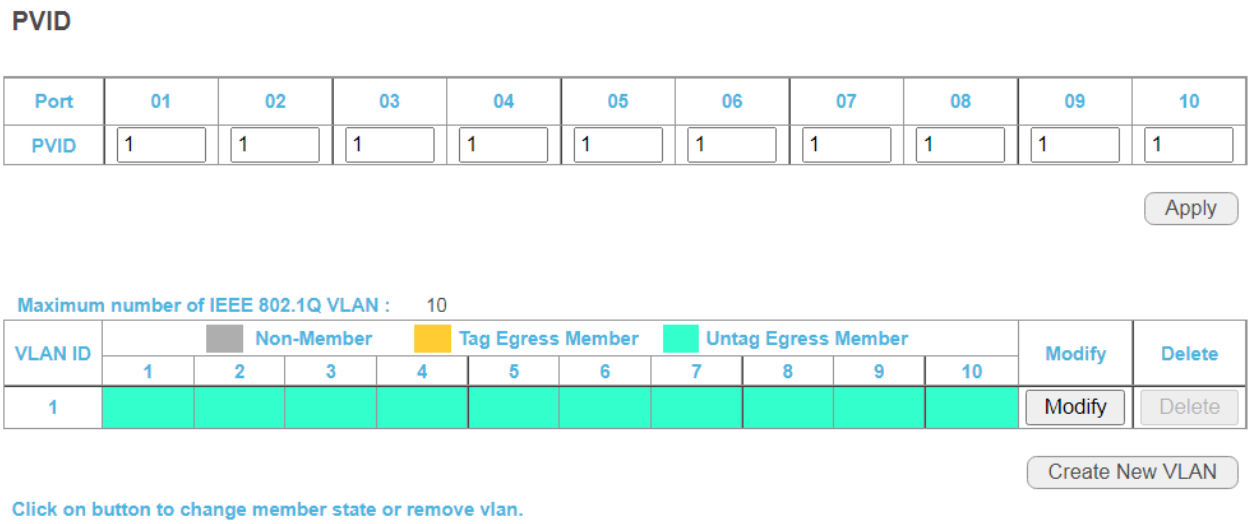
This page shows port current status.
Select **Enable** or **Disable** to enable or disable Long Range Mode.



NOTE: Enable long range mode will double the cabling distance but reduce the speed to 10Mbps.

IV-5. 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.

IV-6. Trunking

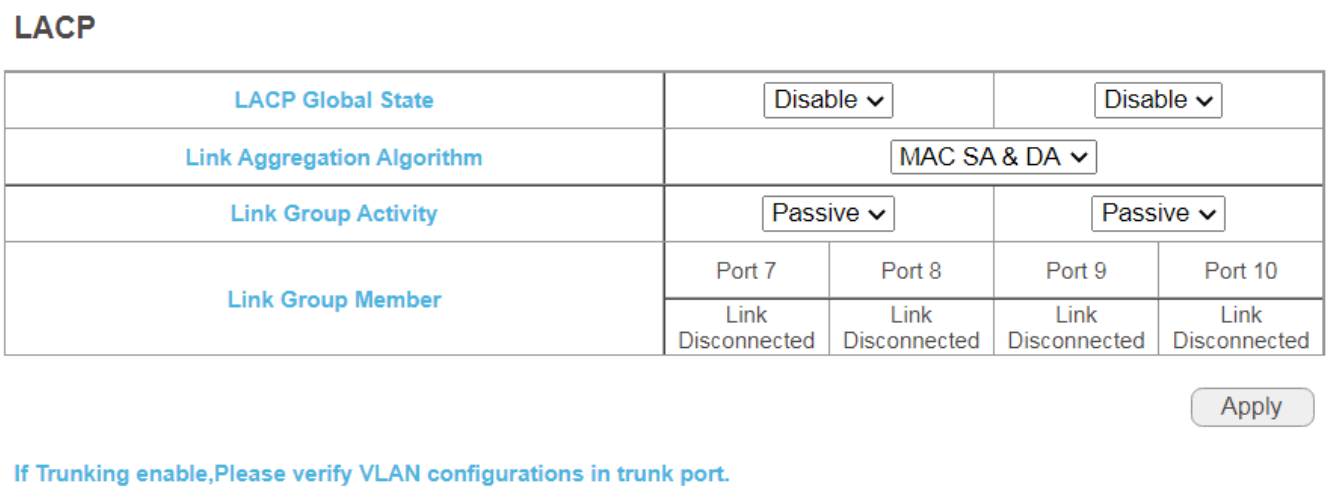
Link aggregation (trunking) is the grouping of physical ports into one logical higher-capacity link. You may want to trunk ports if, for example, it is cheaper to use multiple lower-speed links than to under-utilize a high-speed, but more costly, single-port link.

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:

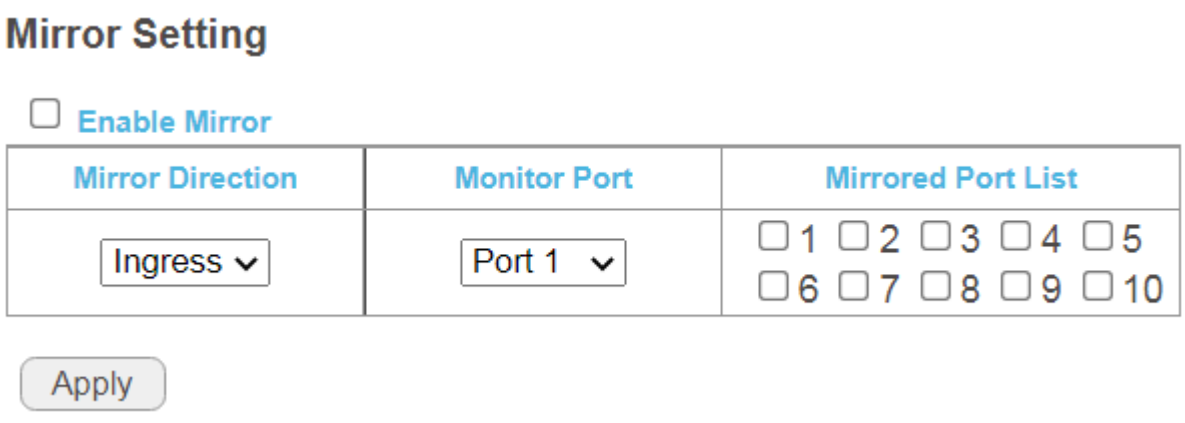
- **LACP only works on full-duplex links.**
- **All ports in the same trunk group must have the same media type, speed, duplex mode and flow control settings.**
- **Configure trunk groups or LACP before you connect the Ethernet switch to avoid causing network topology loops.**



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.

IV-7. Mirror

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.

IV-8. QoS

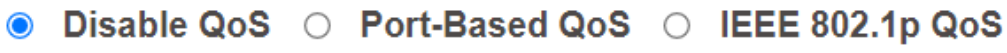
There are two options of QoS mechanism are provided for traffic forwarding: port-based QoS and 802.1p QoS. Users can switch to either of them on the Web page.

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.

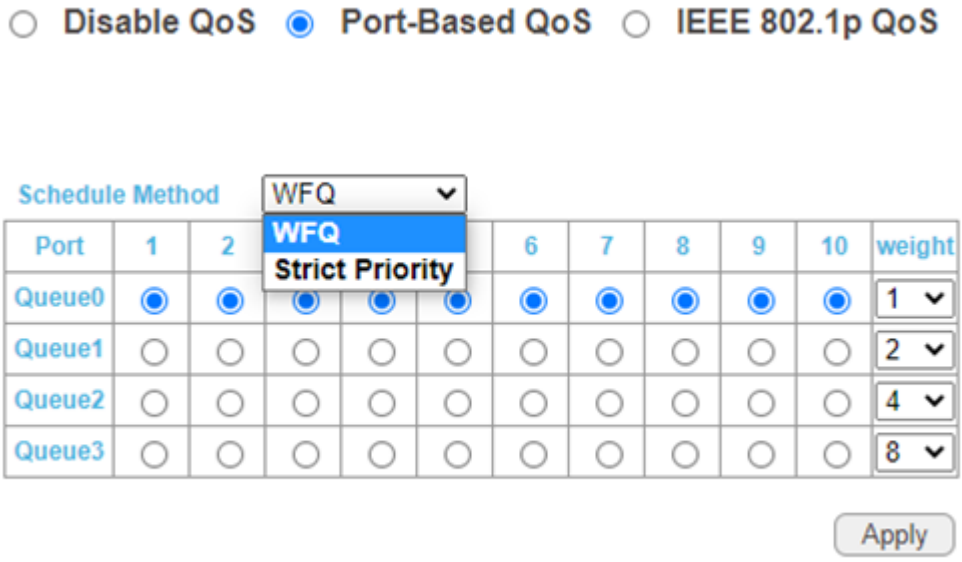
The current queue for each port is configured as below.

IV-8-1. Disable QoS:

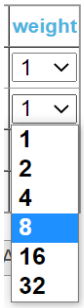


QoS is Disable !!!

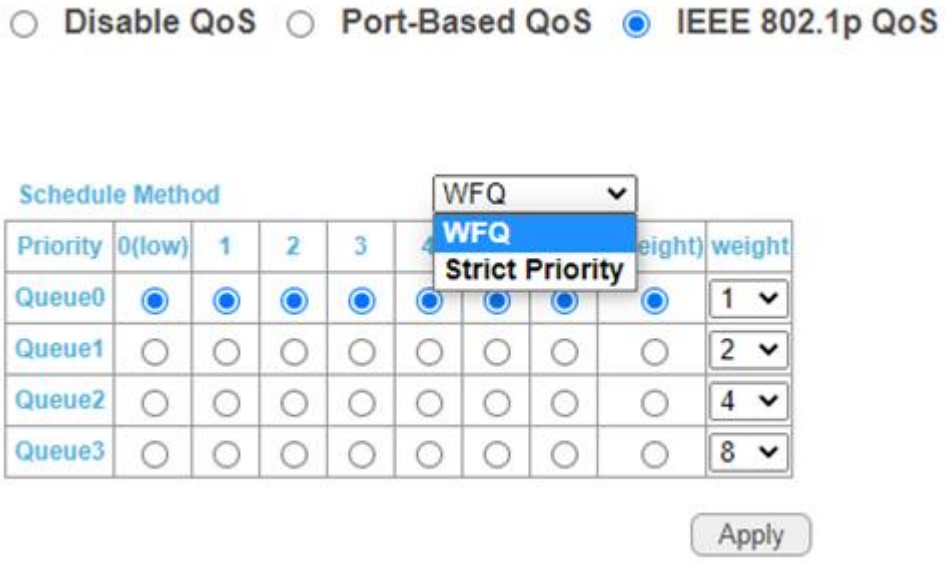
IV-8-2. Port-Based QoS:



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

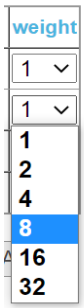
Item	Description
Schedule Method	WFQ(Weighted Fair Queue) Strict Priority
Weight (WFQ Method ONLY)	WFQ weight options: 
Apply	Click Apply to save the changes.

IV-8-3. IEEE 802.1p QoS:



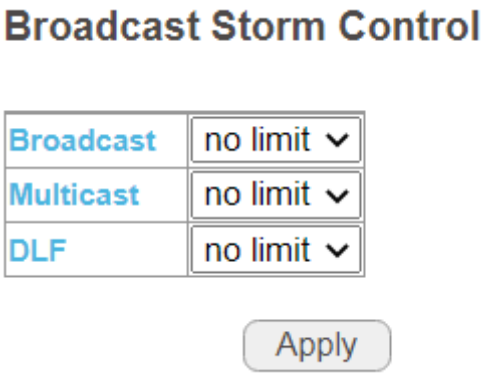
If QoS type is set to 802.1p, the priority is based on the incoming PCP field of the traffic. The current queue for each PCP is configured as below.

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

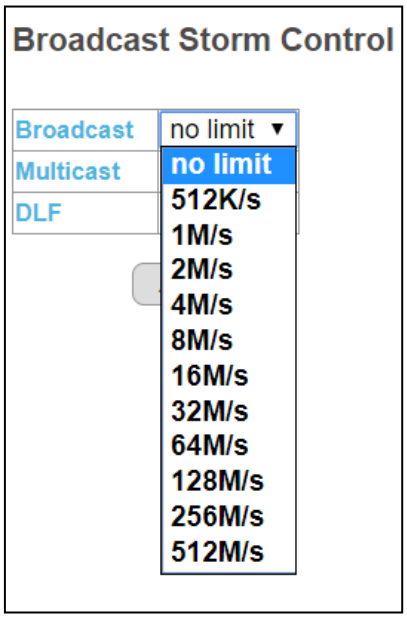
Item	Description
Schedule Method	WFQ(Weighted Fair Queue) Strict Priority
Weight (WFQ Method ONLY)	WFQ weight options: 
Apply	Click Apply to save the changes.

IV-9. 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.



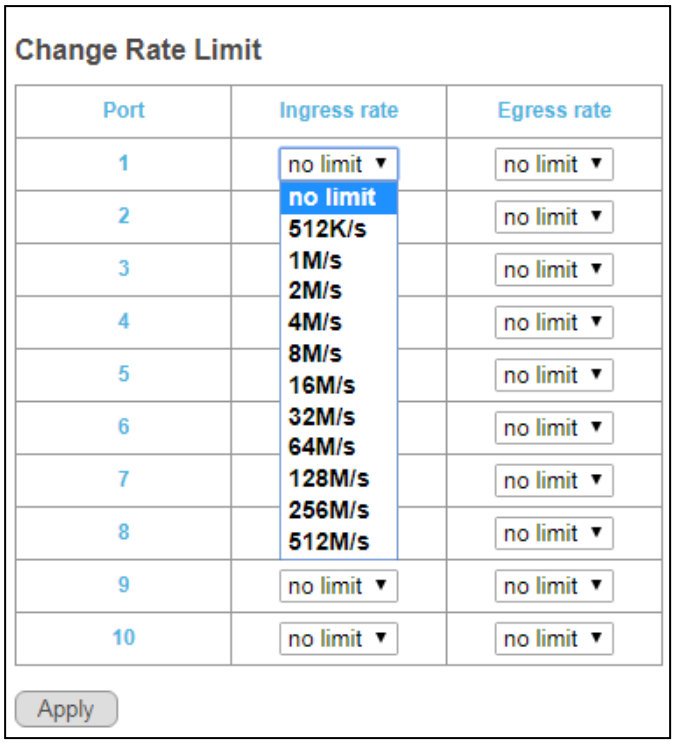
IV-10. Rate Limiting

When the Rate Control feature is enabled, GS-5208PLG V2 provides Ingress/Egress traffic Rate Control per port for broadcast traffic type. Enable this feature to reduce broadcast packets in your network.

Click on a port number to enter the configuration page as shown below:

Port	Ingress rate	Egress rate
1	no limit	no limit
2	no limit	no limit
3	no limit	no limit
4	no limit	no limit
5	no limit	no limit
6	no limit	no limit
7	no limit	no limit
8	no limit	no limit
9	no limit	no limit
10	no limit	no limit

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



IV-11. Loop Detect/Prevent

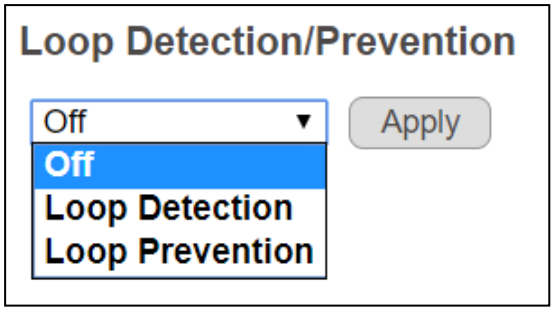
GS-5208PLG V2 provides a Loop Protection feature for unmanaged environments. There are two kinds of mechanism are available, which are Loop Detection and Loop Prevention. Users can choose to enable Loop Detection or Loop Prevention.

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.

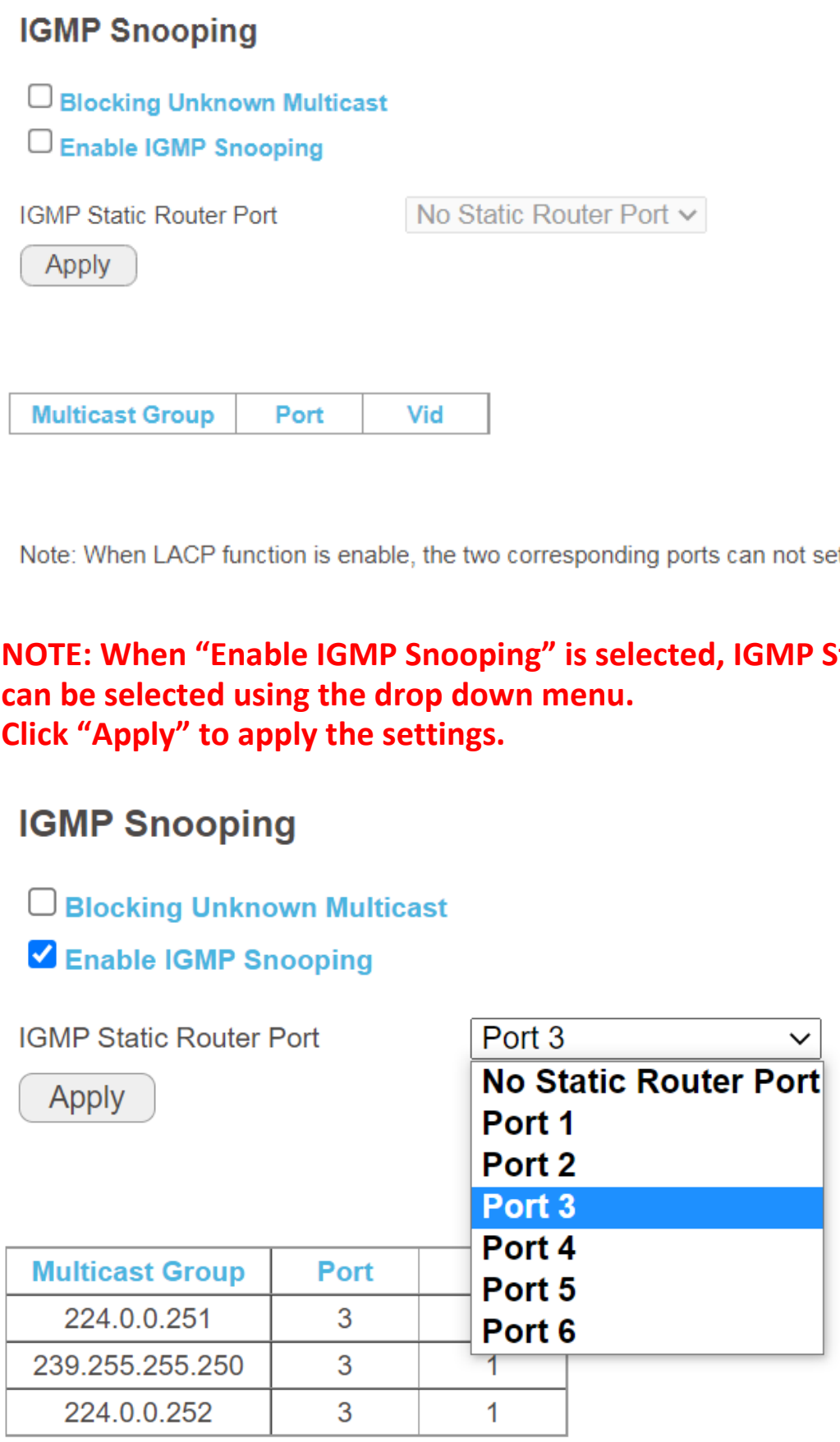
On the Loop Detect/Prevent page, select either “Off”, “Loop Detection” or “Loop Prevention” and click “Apply” to apply the settings.



IV-12. IGMP Snooping

When the IGMP Snooping is enabled, the GS-5208PLG V2 will process IGMP control packets for multicast traffic forwarding. The switch will record information of IGMP v2 packets and maintain database for multicast traffic. Multicast traffic will then be forwarded according to the database.

When IGMP Snooping feature is enabled, switch will record information of IGMP v3 packets and maintain database for multicast traffic. Then multicast traffic will be forwarded according to the database. In IGMP v3, multiple multicast group and source IP information can be recorded in one IGMP v3 packet, GS-5208PLG V2will record each multicast group address and ignore source IP information.



NOTE: When “Enable IGMP Snooping” is selected, IGMP Static Router Port can be selected using the drop down menu.
Click “Apply” to apply the settings.

IV-13. PoE

Click on a port number and the options are shown below:

POE Global Settings

PSE Total Power	85W
PSE MAX LED Power	75W
PSE voltage	53.5V

POE Status

Port	Power Status	Real Current(W)	Real Temperature(℃)
1	Turned on	0	47
2	Turned on	0	48
3	Turned on	0	46
4	Turned on	0	45
5	Turned on	0	46
6	Turned on	0	46
7	Turned on	0	47
8	Turned on	0	32

Turned on:8 Total Power:0 W

Click the drop down menu to select whether to turn on or off PoE function. Click “Apply” to apply the settings.

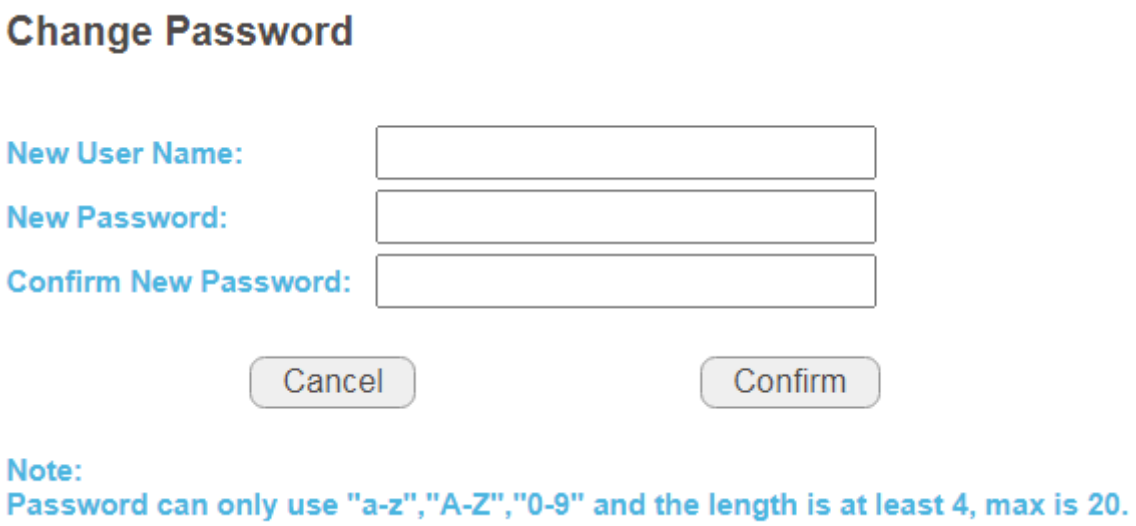
PoE port configuration

Port	Power Supply
1	Turn on
2	Turn on / Turn off
3	
4	Turn on
5	Turn on
6	Turn on
7	Turn on
8	Turn on

Apply

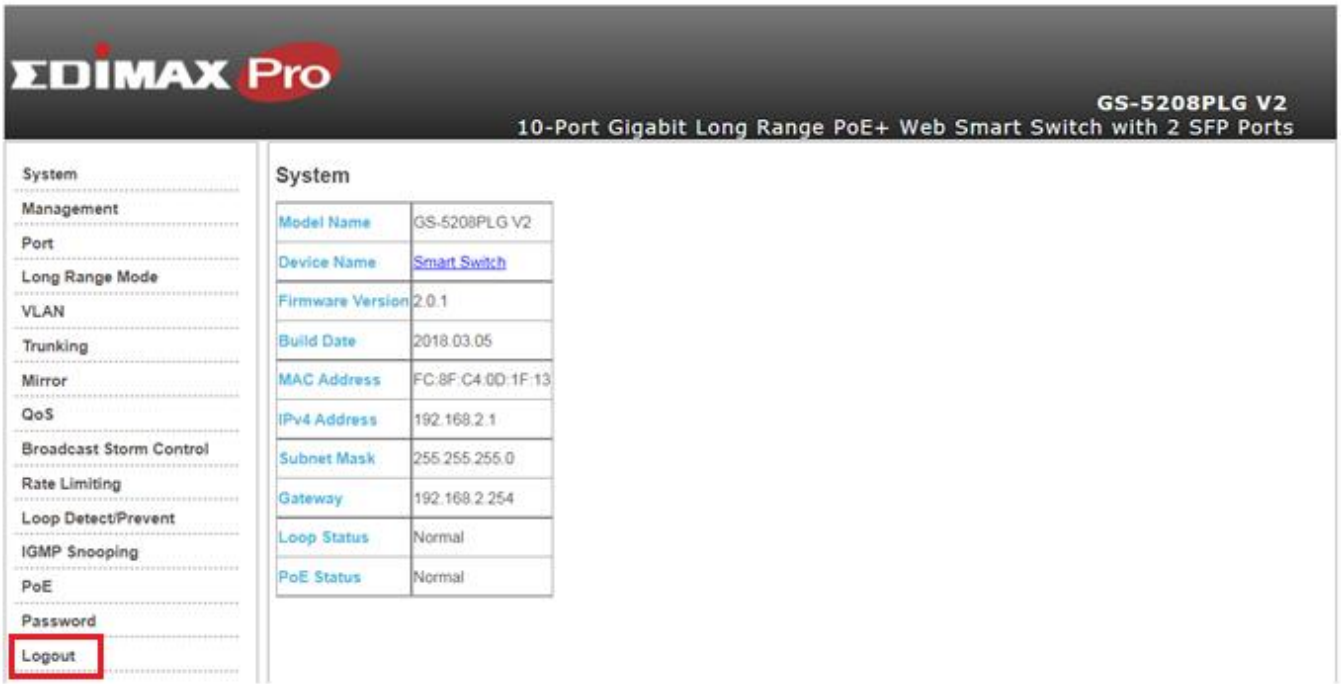
IV-14. Password

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



IV-15. Logout

Click the virtual Logout button to exit the Web UI of GS-5208PLG V2.



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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, 8-Port Long range PoE Switch
Model No.: GS-5208PLG V2

The following European standards for essential requirements have been followed:

Directives 2014/30/EU

EMC	:	EN 55032:2015+AC:2016
		EN 61000-3-2:2014 Class A
		EN 61000-3-3:2013
		EN 55035:2017
Safety (LVD)	:	EN 62368-1:2014+A11:2017

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CE

Date of Signature: May, 2021
Signature:

Printed Name: Albert Chang
Title: Director
Edimax Technology Co., Ltd.