GS-5210PLG

User Manual

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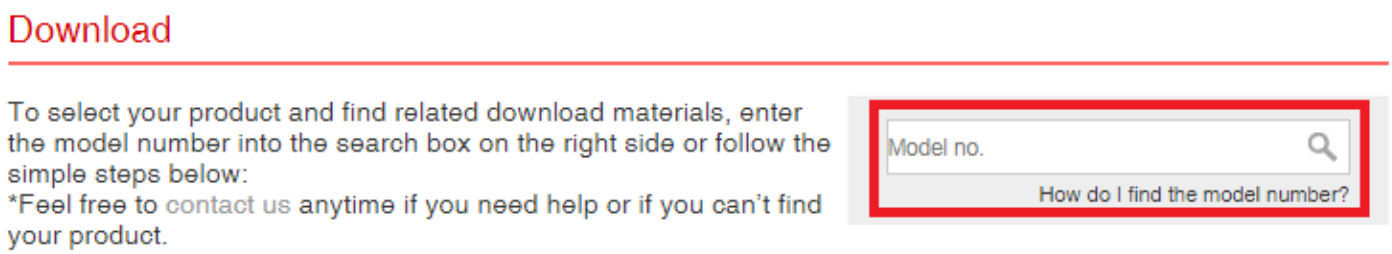
I. Product Information

The Edimax Pro GS-5210PLG is a web-smart switch with 8 Gigabit PoE+, 1 Gigabit RJ45 uplink port and 1 Gigabit SFP uplink. 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-5210PLG 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:

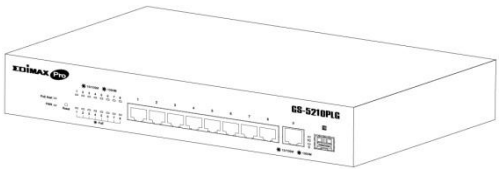
https://www.edimax.com/download

(Once you've visited the Edimax official website, please enter the model no. "GS-5210PLG" into the search box to search for your product.)



I-1. Package Content

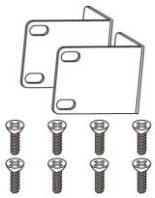
Before start using this product, please check if there is anything missing in the package, and contact your dealer to claim the missing item(s):



GS-5210PLG

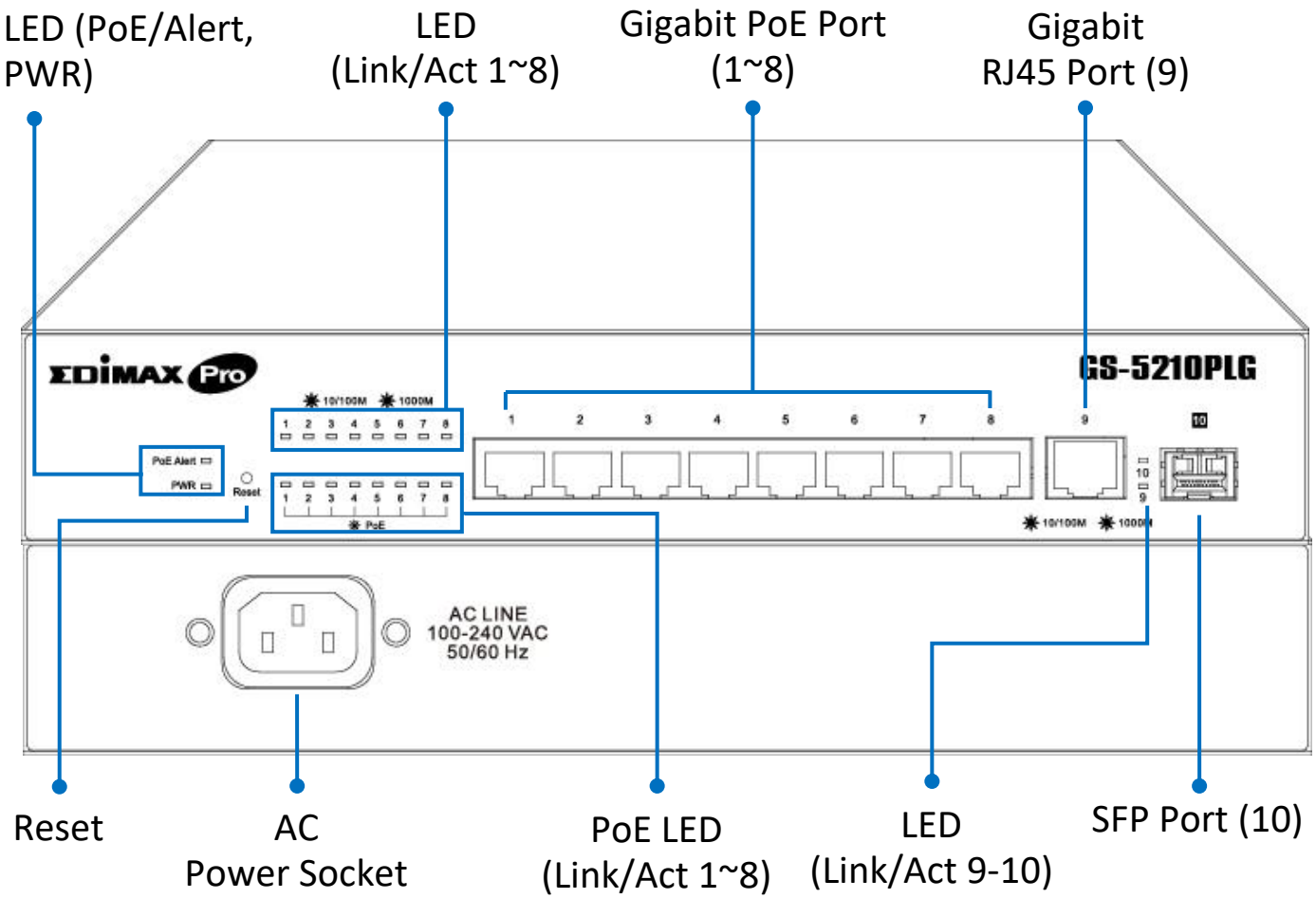
Quick Installation Guide

Power Cord



Rack-Mount Kit

I-2. Hardware Overview



I-3. LED Status

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

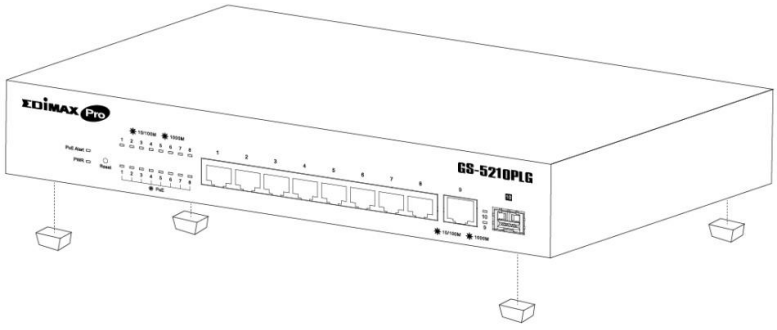
II. Installation

Read the following below procedures in the correct order. Incorrect installation may cause damage to the product.

II-1. Physically Setup

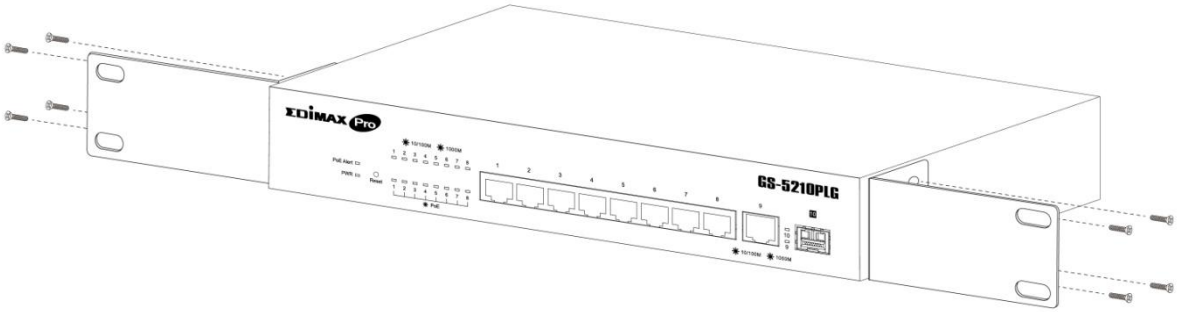
There are two ways to physically set up the switch.

1. **Desktop Placement**: Place the switch on a flat surface and install the four rubber feet (included) on the bottom of the switch.

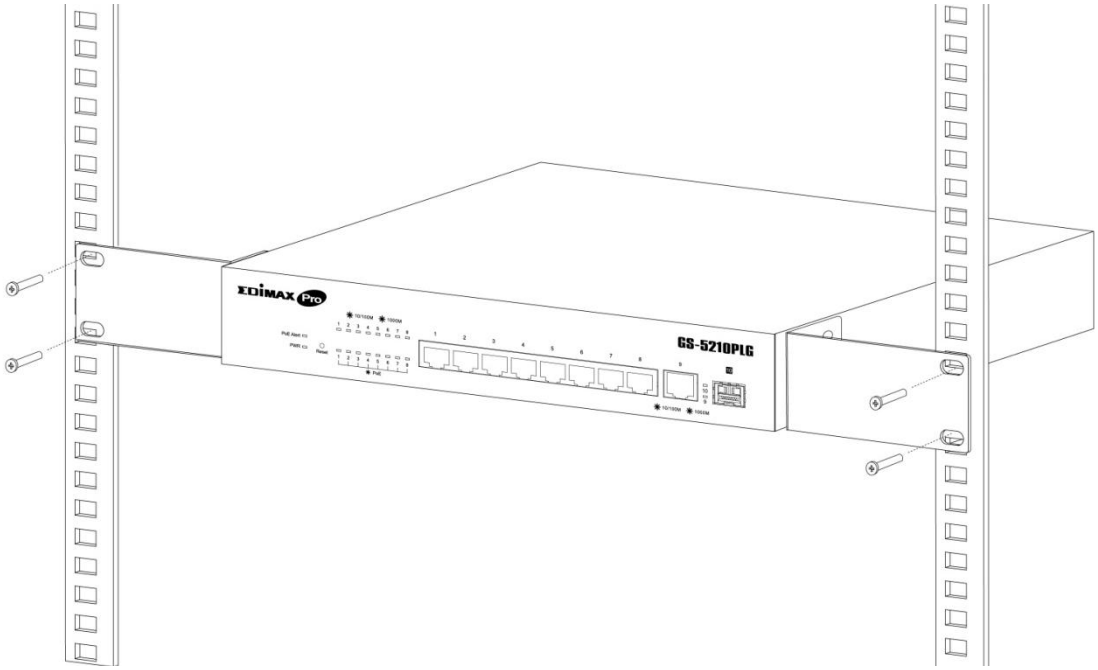


2. **Rack-mount the switch**: You can mount the switch in any standard size, 19-inch (about 48 cm) wide rack with 1 Rack Unit (1U) of space, which is 1.75 inches (4.45 cm) high. A pair of extension brackets and screws are needed to adapt the switch to the rack size.

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



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



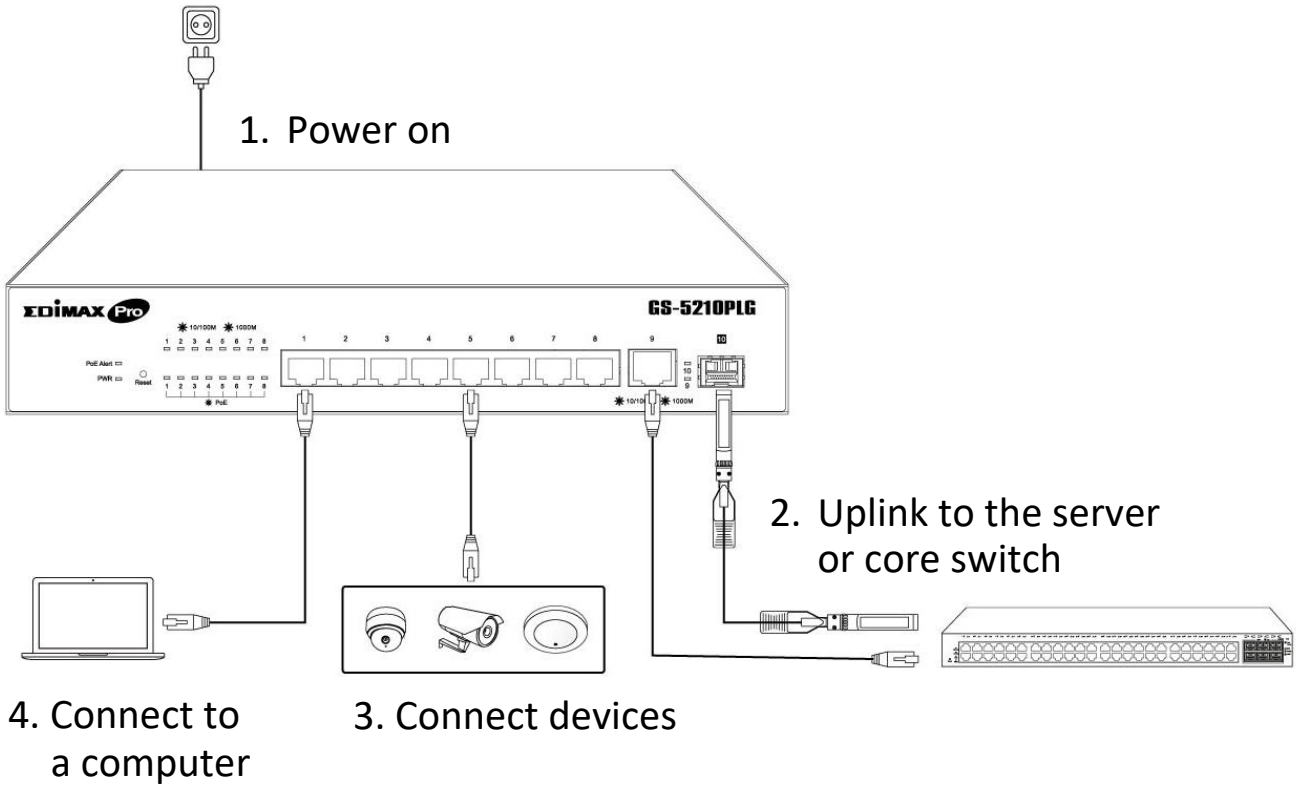
II-2. Connection

1. **Power on**: Connect the power cord to the switch and the power outlet. The switch is powered by the 100-240VAC 50/60Hz external high-performance power supply. (Note: Make sure the PWR LED is green.)

2. **Uplink**: Plug the standard Cat5e(or above) Ethernet cable into the LAN port no. 9 or plug the SFP cable into the SFP slot and connect it to the LAN server or core switch. (Note: Make sure that the LED is green or amber.)

3. **Connect devices**: Plug the standard Cat5e(or above) Ethernet cable into the LAN port and connect to any networking device with an Ethernet port. (Note: Make sure that the "LAN" LED is green or amber.) The hardware installation is complete!

4. **Connect a computer**: Connect your computer with the switch and get ready for web-based configuration with following ” Section III Web-based Configuration Utility”.



III. 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.

Launching the Configuration Utility

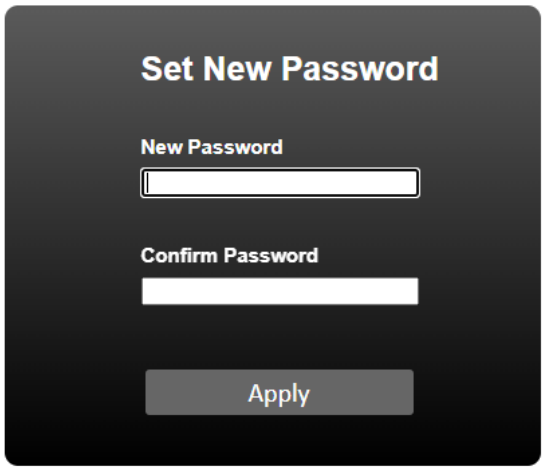
1. Connect your computer with the switch then open a web browser.

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

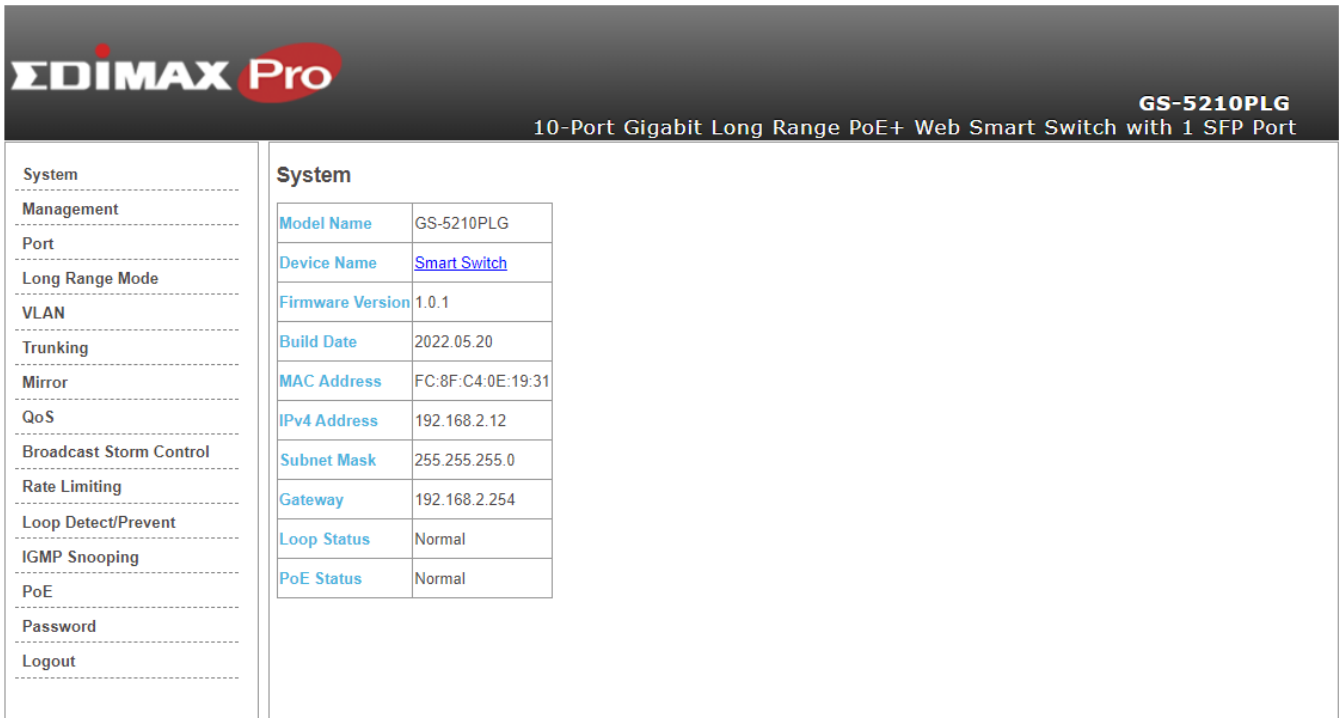
3. The default username is “admin” and the default password is “1234”.

4. **The first time that you log in with the default username and password, you are required to change password.**



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-5210PLG, the user interface is separated into fifteen sections, as shown in the following figure:



IV-1. System

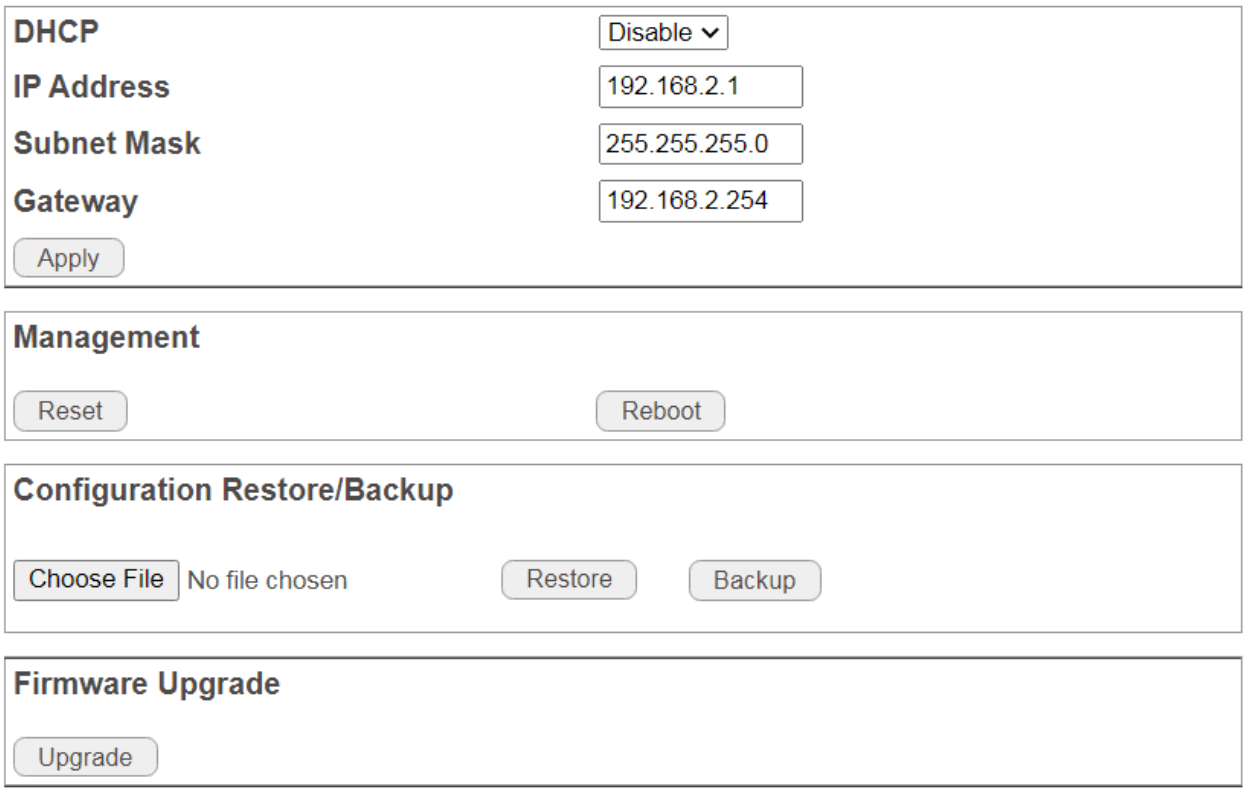
This page shows system current information. It also allows user to edit some system information.

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.

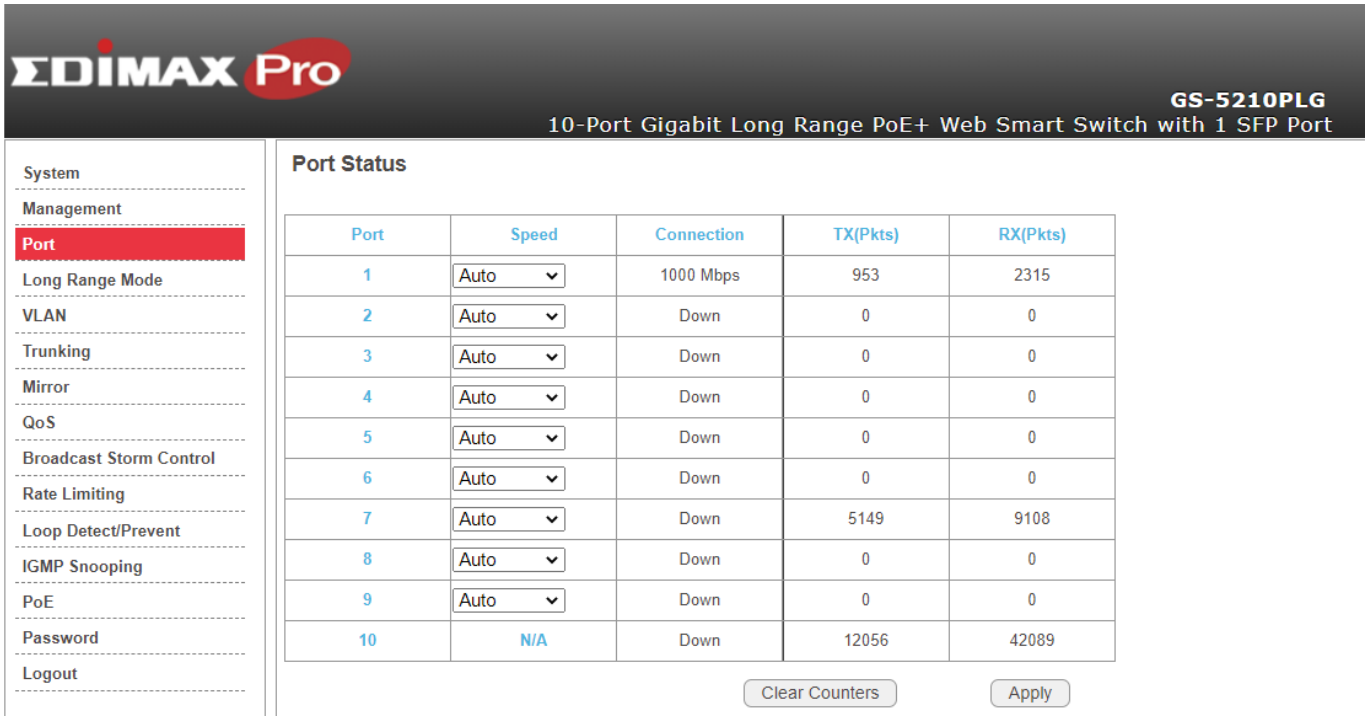
Item	Description
Management	Reboot: You can reboot the switch by pressing the “Reboot” button. Reset: You can reset the switch to default by pressing the “Reset “button.

Item	Description
Configuration Restore/Backup	Backup: Backup the configurations from this GS-5210PLG. 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

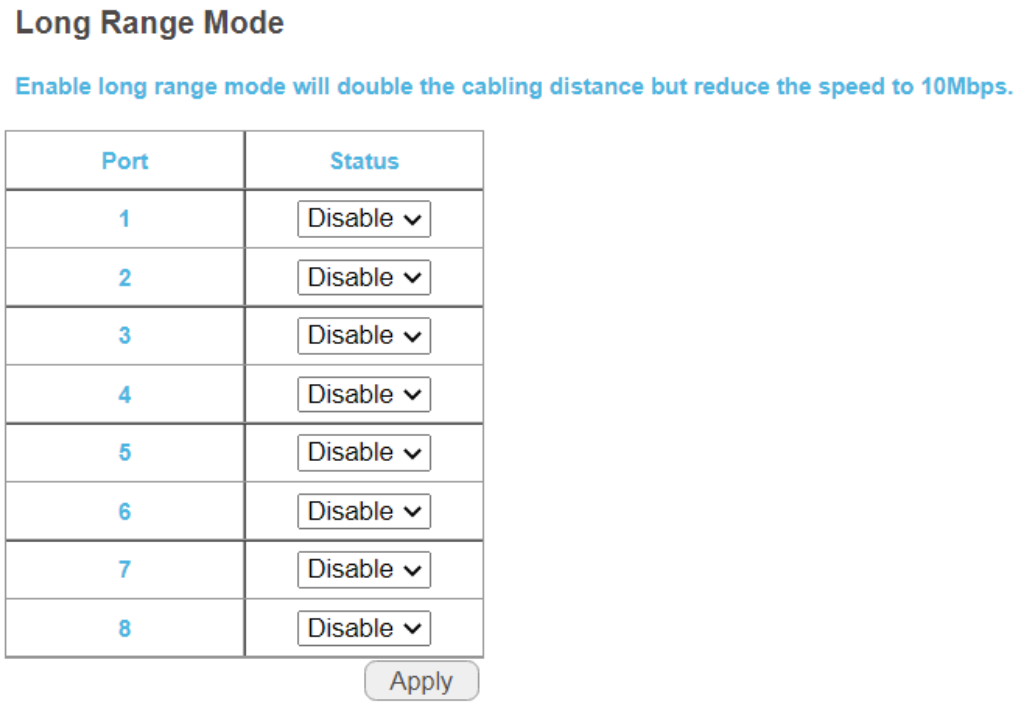
Configure settings for switch port related features.



Item	Description
Port	Port number
Speed	Port speed capabilities. ●Auto: Auto speed with all capabilities. ●10M Half: Speed with Half-Duplex ●10M Full: Speed with Full-Duplex ●100M Half: Speed with Half-Duplex ●100M Full: Speed with Full-Duplex
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

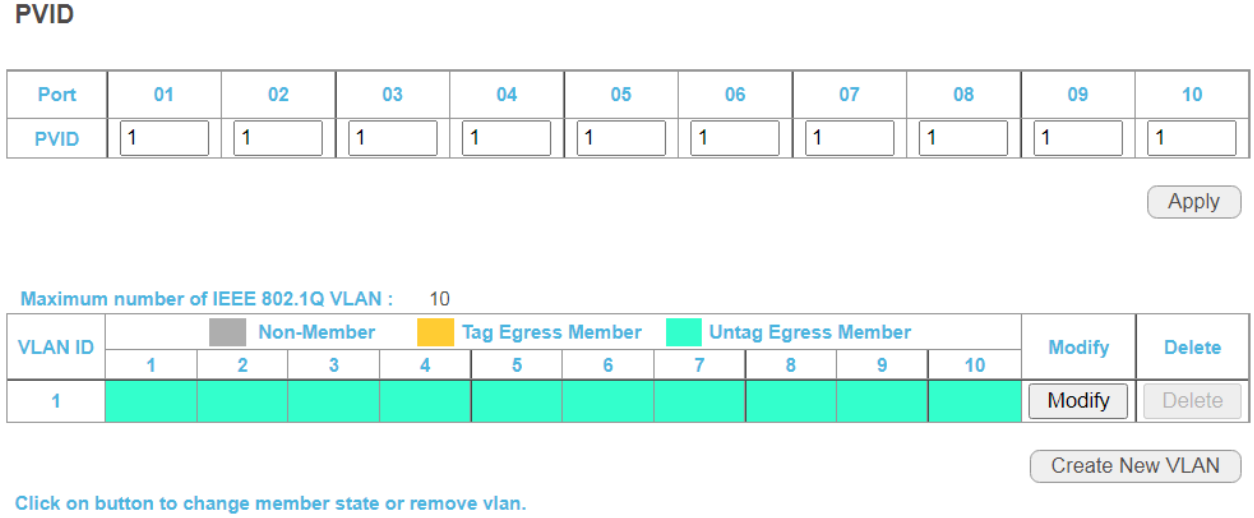
This page shows port current status.
Select **Enable** or **Disable** to enable or disable Long Range Mode.



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.
PVID=Port VLAN ID, Each port only belong to a PVID exclusively.

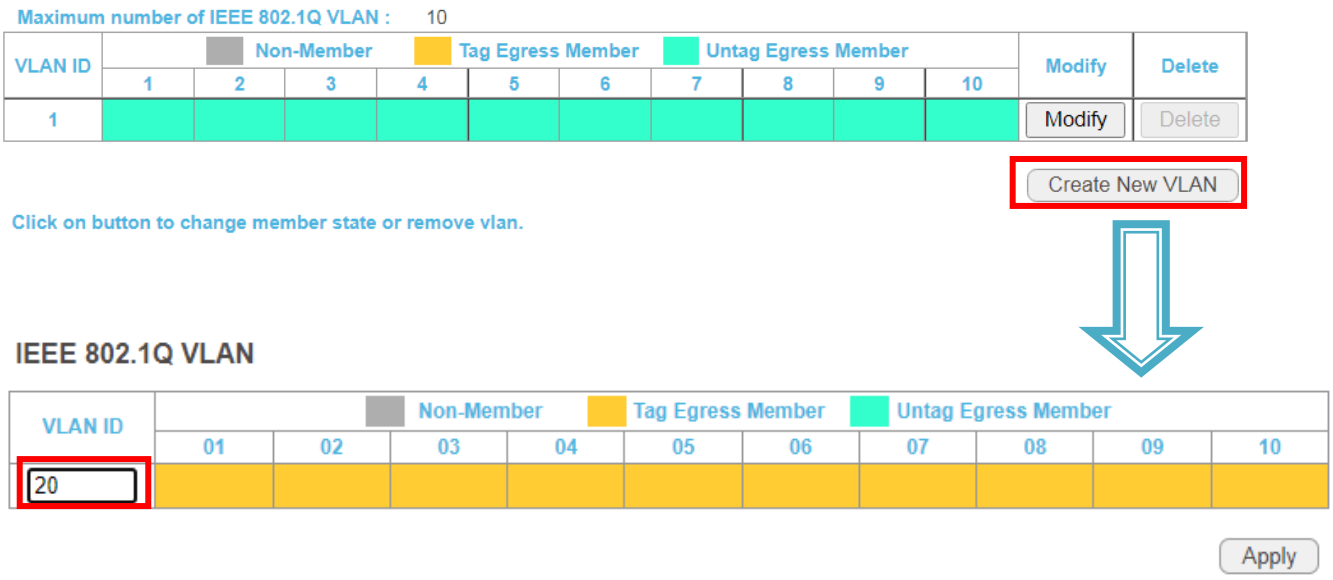


Item	Description
Apply	Click “Apply” to save the values.
Port	Designated port number.
PVID	Enter a Port VLAN ID for each port.
Create New VLAN	Click “Create New VLAN” to enter new VLAN settings.
VLAN ID	Virtual LAN ID, or called VID
Non-Member	Port is not a member of a VLAN.
Tag Egress Member	Tag outgoing 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: PVID 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.

Create New VLAN

Click “**Create New VLAN**” to enter new VLAN settings.

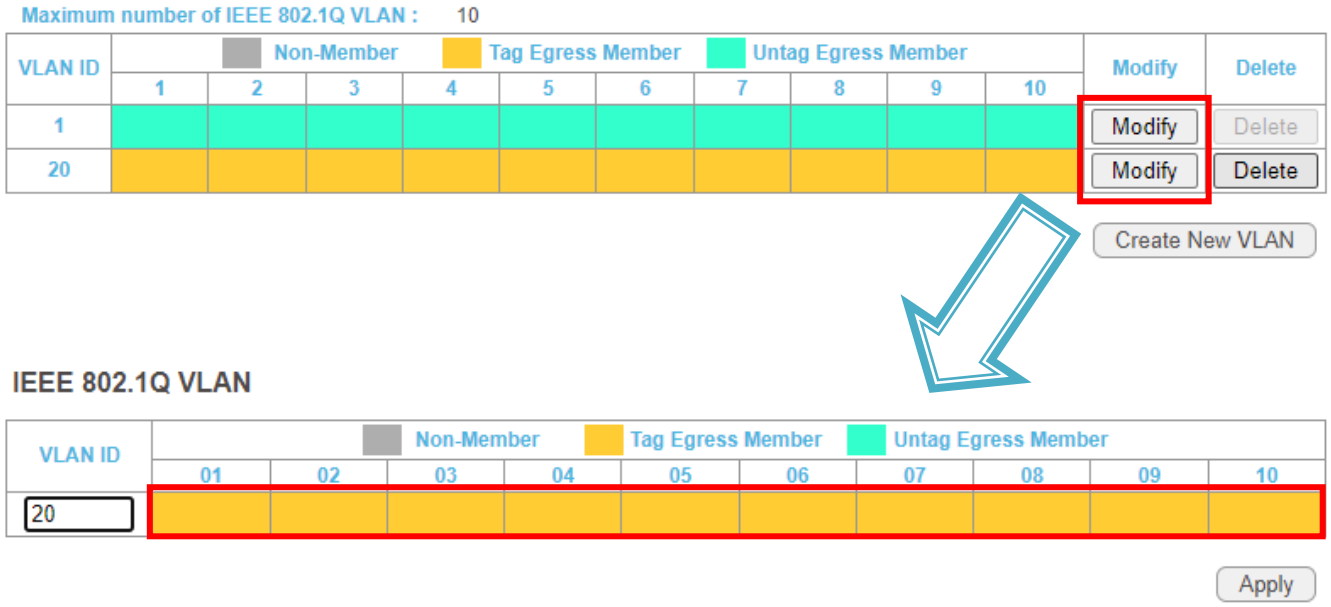


Enter the valid VLAN ID (2~4094), and click “**Apply**”.

New VLAN has been created!

Change the Member State

Click" **Modify**" button to change the member state.



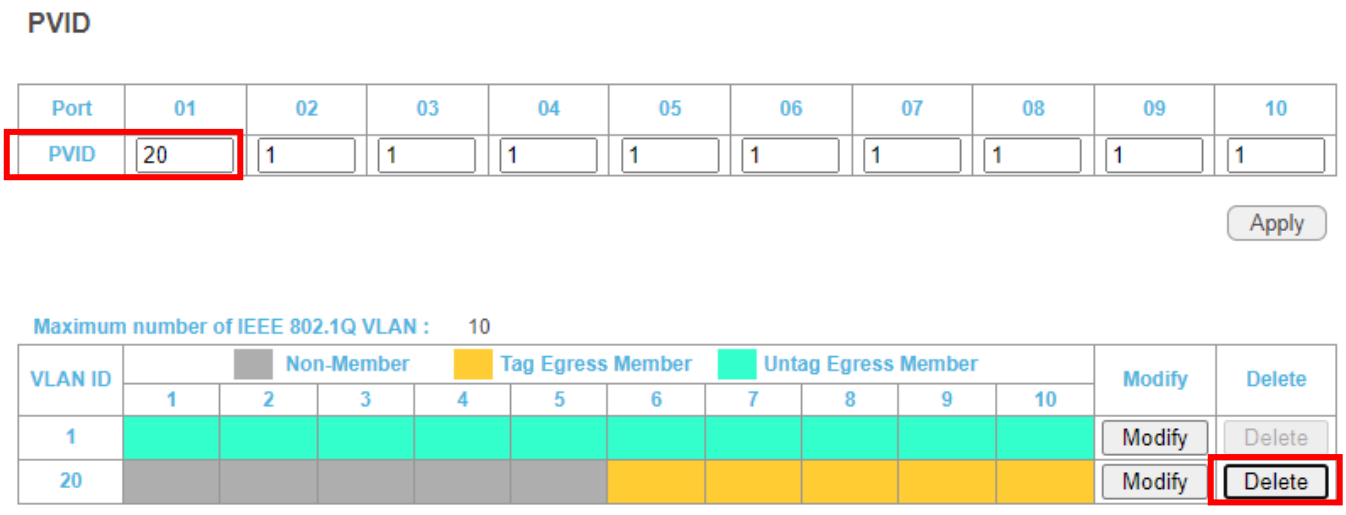
There are 3 VLAN member states:

Non-Member Tag Egress Member Untag Egress Member

Click on the box (Default: Tag Egress Member) to change each the member state,

and click "**Apply**".

SimpleClick "**Delete**" button to delete the targeted VLAN.



Note: If the VLAN ID is used as PVID, deleting the VLAN ID is not allowed.

IV-6. Trunking

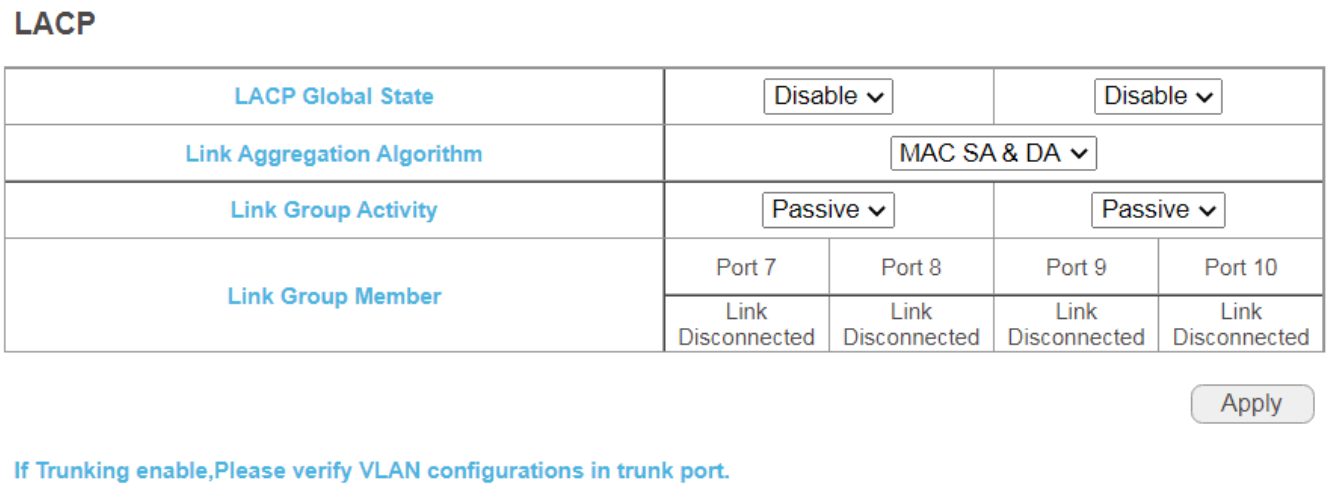
Link aggregation (trunking) is the grouping of physical ports into one logical higher-capacity link. You may want to trunk ports if, for example, it is cheaper to use multiple lower-speed links than to under-utilize a high-speed, but more costly, single-port link.

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.

Note:

- **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.**

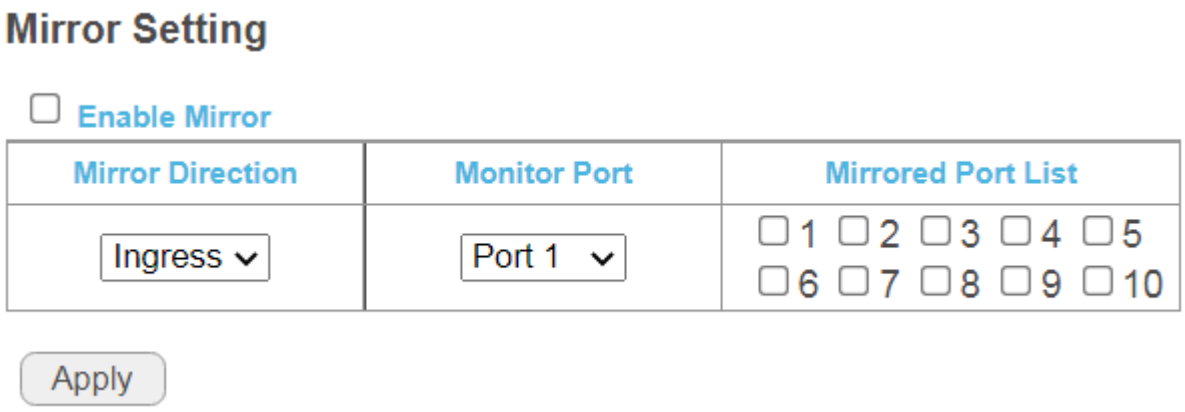


Item	Description
LACP Global State	Select "Enable "or "Disable" to enable or disable Link Aggregation Control Protocol.
Link Aggregation Algorithm	Select the outgoing traffic distribution type. Packets from the same source and/or to the same destination are sent over the same link within the trunk.

	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.

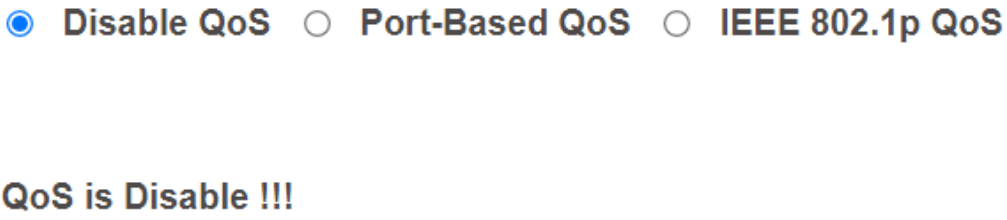
IV-8. QoS

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.

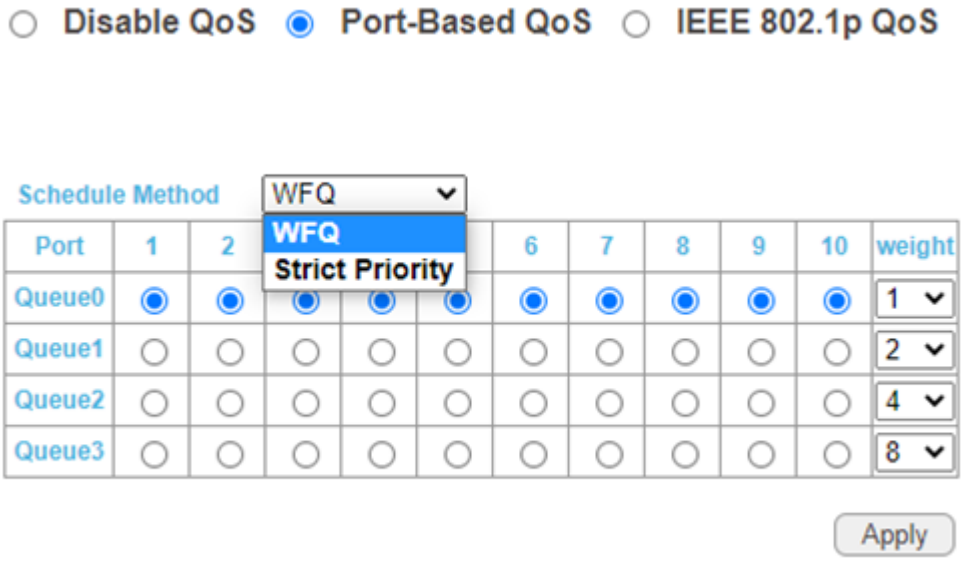
When Quality of Service (QoS) feature is enabled, traffic will be forwarded according to the predefined setting of port-based QoS or 802.1p QoS.

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.

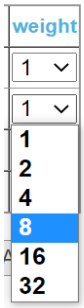
IV-8-1. Disable QoS:



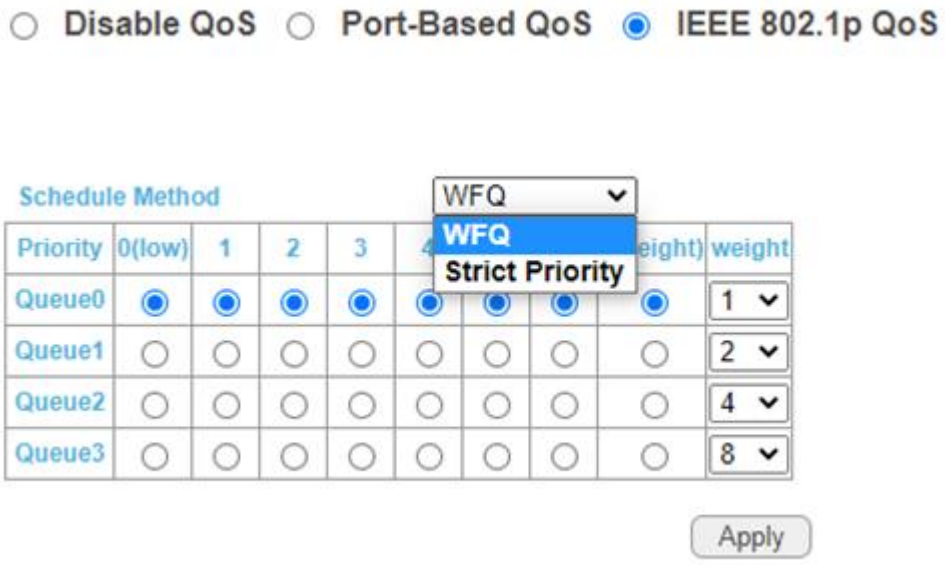
IV-8-2. Port-Based QoS:



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

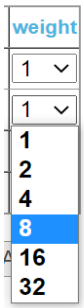
Item	Description
Schedule Method	WFQ(Weighted Fair Queue) Strict Priority
Weight (WFQ Method ONLY)	WFQ weight options: 
Apply	Click Apply to save the changes.

IV-8-3. IEEE 802.1p QoS:



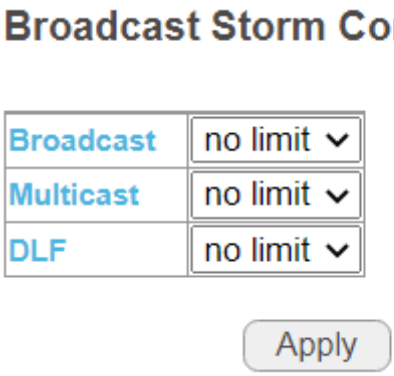
If QoS type is set to 802.1p, the priority is based on the incoming PCP field of the traffic. The current queue for each PCP is configured as below.

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

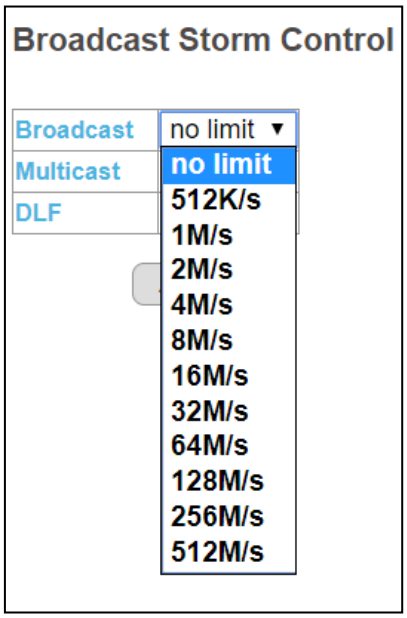
Item	Description
Schedule Method	WFQ(Weighted Fair Queue) Strict Priority
Weight (WFQ Method ONLY)	WFQ weight options: 
Apply	Click Apply to save the changes.

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.



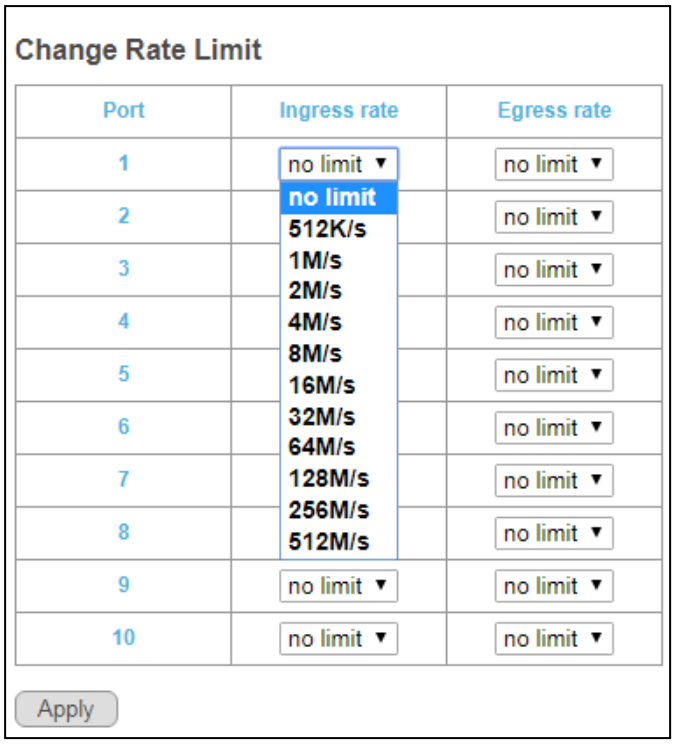
IV-10. Rate Limiting

When the Rate Control feature is enabled, GS-5210PLG 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:

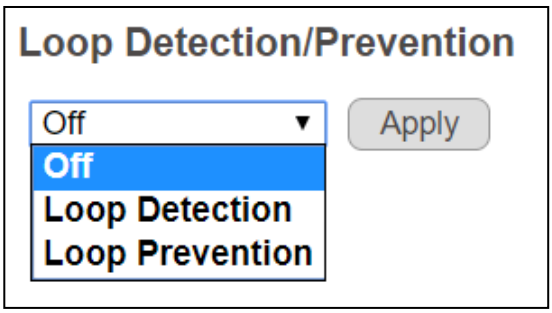
Port	Ingress rate	Egress rate
1	no limit	no limit
2	no limit	no limit
3	no limit	no limit
4	no limit	no limit
5	no limit	no limit
6	no limit	no limit
7	no limit	no limit
8	no limit	no limit
9	no limit	no limit
10	no limit	no limit

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



IV-11. Loop Detect/Prevent

Users can choose to enable Loop Detection or Loop Prevention.



Item	Description
Off	By Default, Loop Detection/Prevention is disabled.

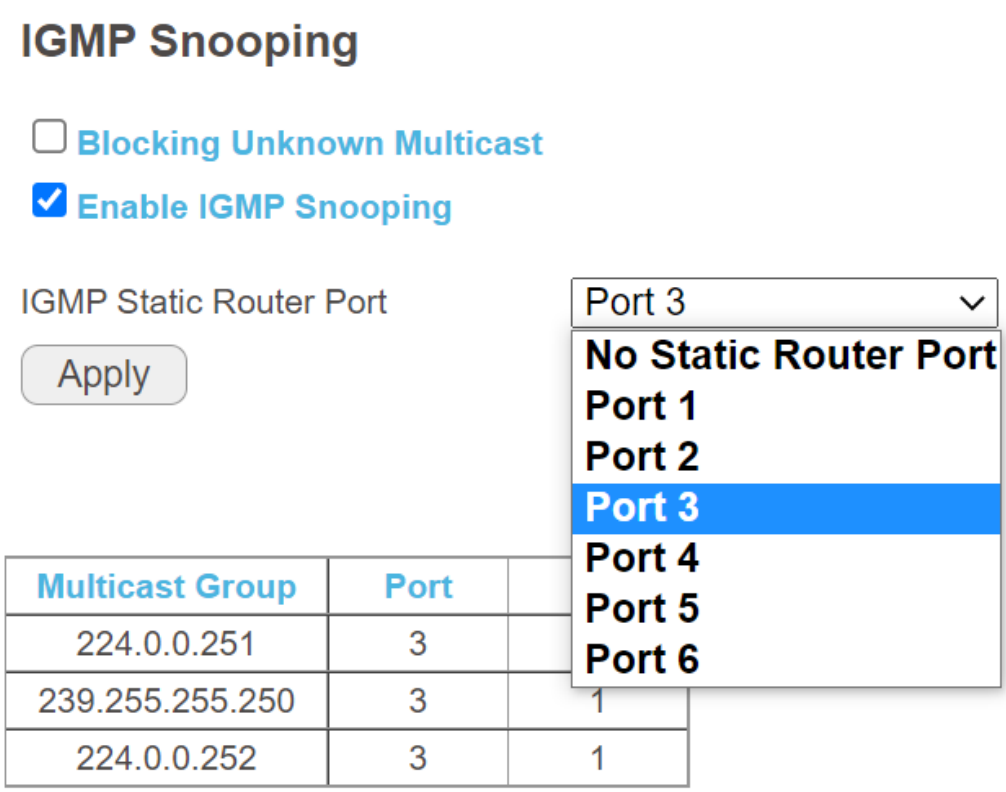
Loop Detection	When loop is detected, the Link/ACT LEDs of the ports will raise the warning by blinking.
Loop Prevention	When loop is detected, the port will be disabled and turned off the Link/ACT LED of the looped port.
Apply	Click Apply to save the changes.

Note:
The Loop Detection function does not repair the loop, but only issues a warning message by blinking LEDs of the ports

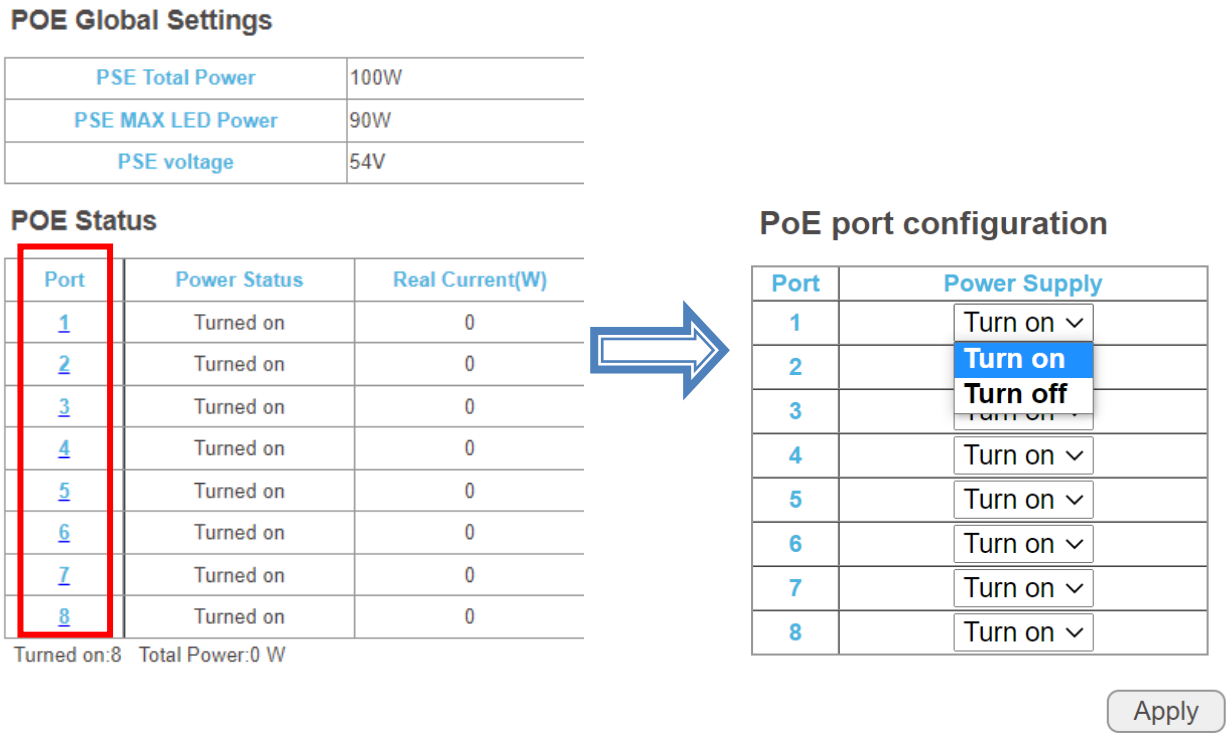
IV-12. IGMP Snooping

The IGMP snooping software examines IGMP protocol messages within a VLAN to discover which interfaces are connected to hosts or other devices interested in receiving this traffic. Using the interface information, IGMP snooping can reduce bandwidth consumption in a multi-access LAN environment to avoid flooding the entire VLAN. The IGMP snooping feature tracks which ports are attached to multicast-capable routers to help it manage the forwarding of IGMP membership reports. The IGMP snooping software responds to topology change notifications

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.



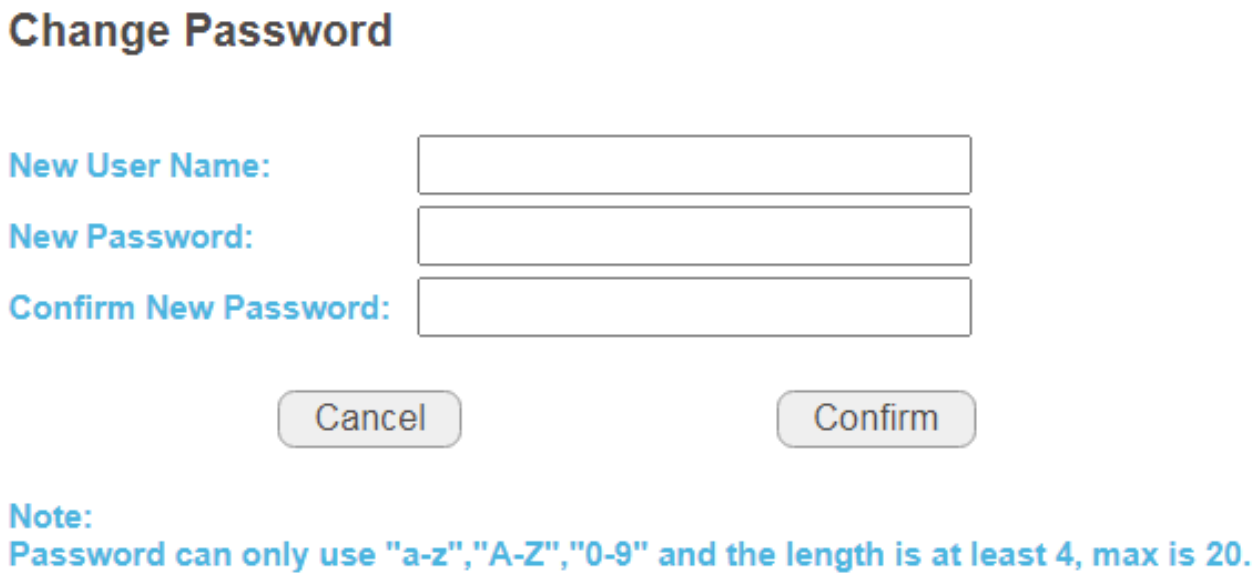
IV-13. PoE



Click on a port number and the options are shown below:
Click the drop down menu to select whether to **Turn on** or **Turn off** PoE function.
Click "**Apply**" to apply the settings.

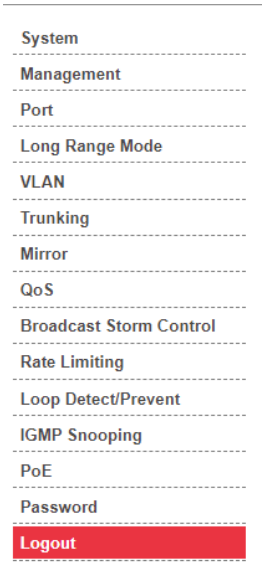
IV-14. Password

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



IV-15. Logout

Click the Logout button to exit the Web Management UI of GS-5210PLG.



V. Safety Instructions

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- This product is designed for indoor use only.
- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- The device contains no user serviceable parts. Do not attempt to service the product and never disassemble the product.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation.
- Keep the product away from radiators and other heat sources.
- This device is not designed to be operated by children.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.

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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: 9-port Gigabit + 1-port SFP Smart-lite Ethernet Switch w/ 8 PoE+ ports
Model No.: GS-5210PLG

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

Directives 2014/35/EU

Safety (LVD) : EN 62368-1:2014+A11:2017

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Signature:

Printed Name: David Huang
Title: Director

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Date & Place of Issue: 30/March/2022, Taipei
Signature:

Printed Name: Hunter Chen
Title: Director

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: 9-port Gigabit + 1-port SFP Smart-lite Ethernet Switch w/ 8 PoE+ ports
Model No.: GS-5210PLG

The following European standards for essential requirements have been followed:

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)

EMC : EN 55032:2015+AC:2016
EN 61000-3-2:2014 Class A
EN 61000-3-3:2013
EN 55035:2017

Electrical Equipment (Safety) Regulations 2016 (S.I. 2016/1101)

Safety (LVD) : EN 62368-1:2014+A11:2017

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UK CA