

GS-5424PLX

Quick Installation Guide

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I Product Information

The EDIMAX GS-5424PLX long-range web-smart switch comes with a web based user interface, equipped with 24 Gigabit PoE+ ports, and SFP+ ports for 10 Gigabit uplinks and long-range copper or optical connections.

The 10 GbE connectivity fully utilizes the power of your office networking for demanding tasks, such as data backup, video conferencing, IP surveillance, high volume transaction processing, large file transferring, and more.

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

<https://www.edimax.com/download>

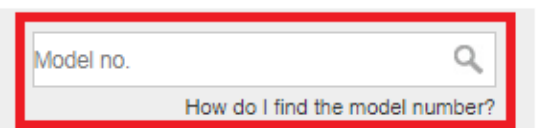


(Once you've visited the Edimax official website, please enter the model no. "GS-5424PLX" into the search box to search for your product.)

Download

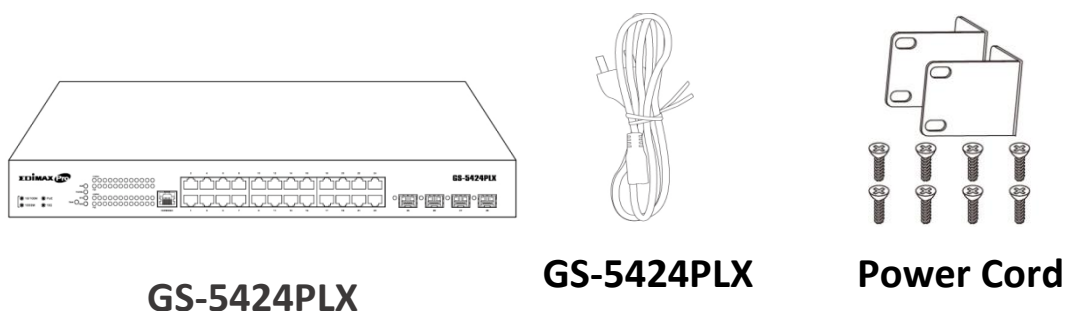
To select your product and find related download materials, enter the model number into the search box on the right side or follow the simple steps below:

*Feel free to contact us anytime if you need help or if you can't find your product.

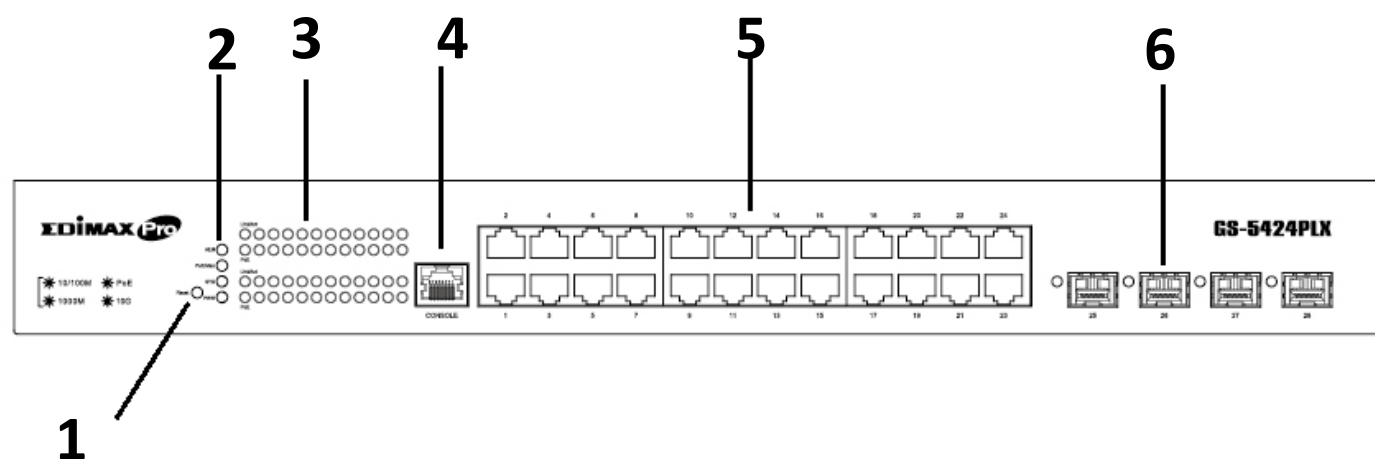
A screenshot of a web search interface. It features a text input field with the placeholder text "Model no." and a magnifying glass icon on the right. Below the input field is a link that reads "How do I find the model number?". The entire search area is highlighted with a red rectangular border.

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):



I-2 Hardware Overview



No.	Descriptions
1	Reset button
2	LED (ALM, PoE/MAX, SYS, PWR)
3	LED (Link/Act)
4	CONSOLE port
5	PoE Ports (1~24)
6	SFP+ Ports (25~28)

I-3 LED Status

Function	Status	Description
PWR	On (Green)	Power on
	Off	Power off
Alert	On (Red)	System fault detected. (System failure due to overheating of switch or wrong voltage)
	Off	No faults detected
PoE/Max	On (Green)	Over PoE max power
	Off	Under PoE max power
Link/ACT (1-24 port)	On (Green)	Link at 1000M
	On (Amber)	Link at 10/100M
	Blinking	Sending or receiving data
	Off	Port disconnected or link fail
SFP+ (25-28 port)	On (Blue)	10G link
	On (Green)	1000M link
	Blinking	Data transmitting
	Off	Port disconnected or link fail
PoE	On (Green)	PoE power output on
	Blinking	PoE power output over 30W
	Off	PoE power output off

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.

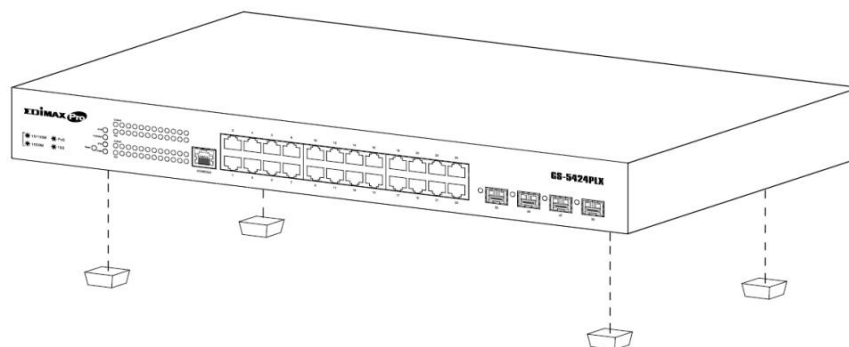


Figure 4 - Desktop Installation

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 (RU) 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.

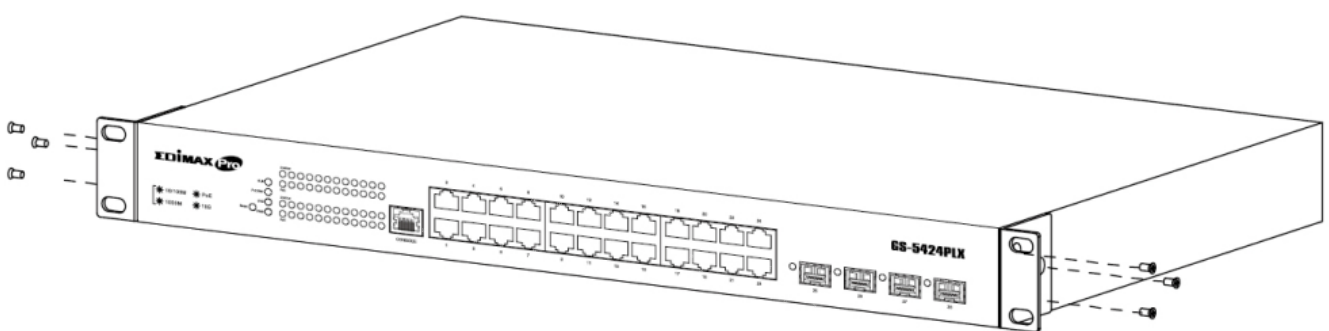


Figure 5 - Bracket Installation

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

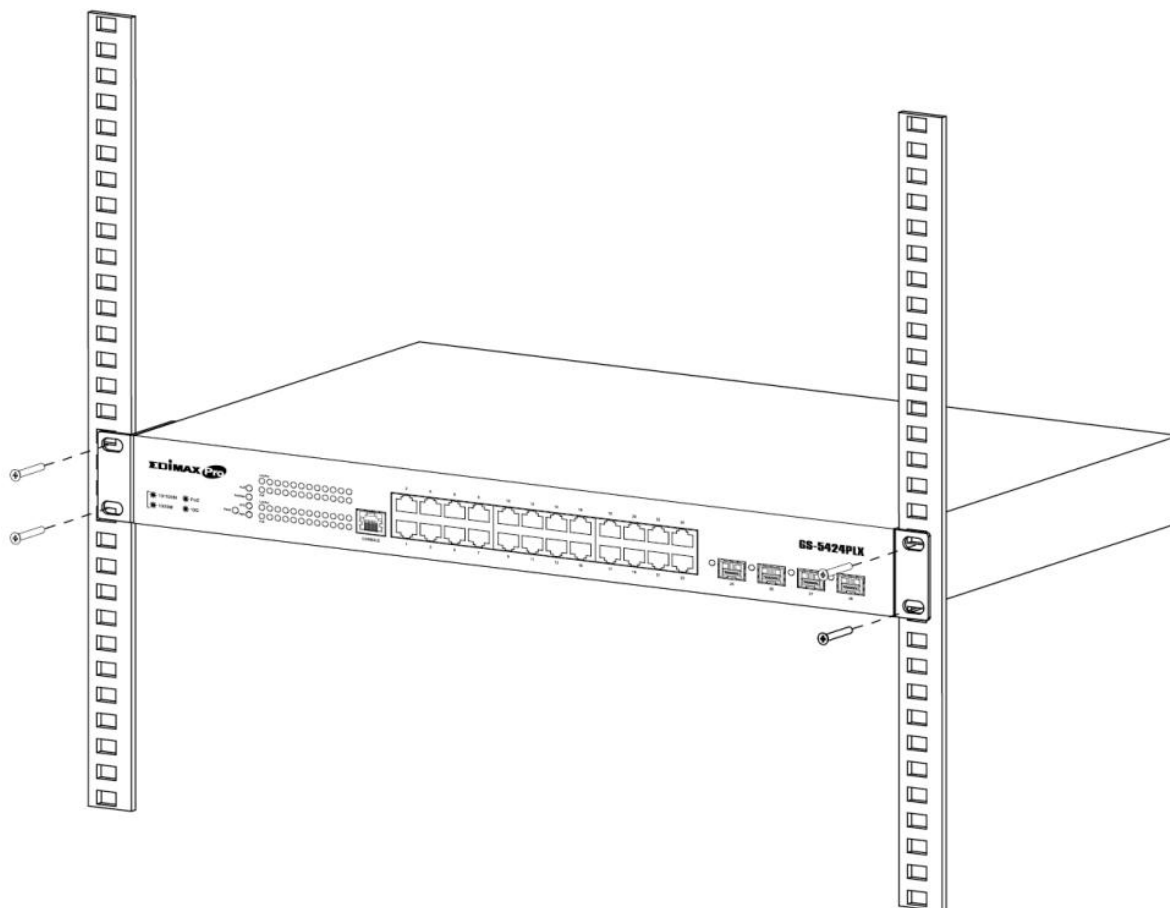


Figure 6 - Rack Installation

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 Power

III-1-1 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-1-2 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 21-24 of the switch. The LED of the port lights if the device connected is active.
3. Connect an Ethernet cable to the IP Cameras

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.

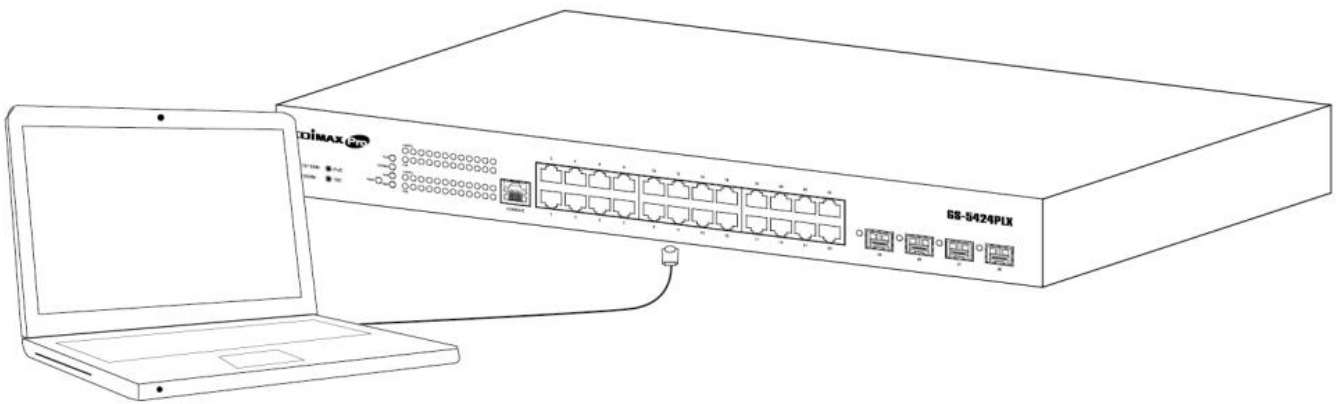


Figure 8 - PC Connect

III-1-3 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.

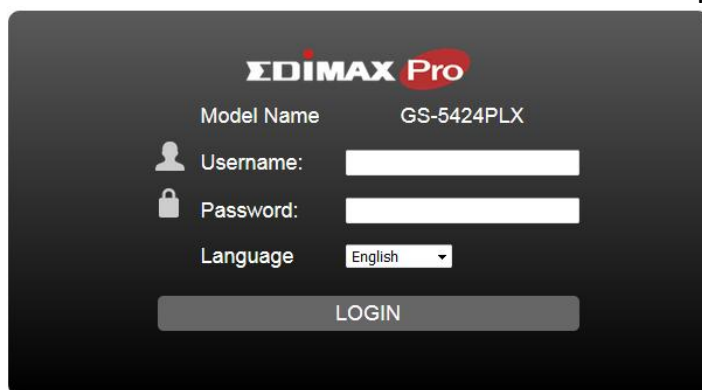
Browser Restrictions

- 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.

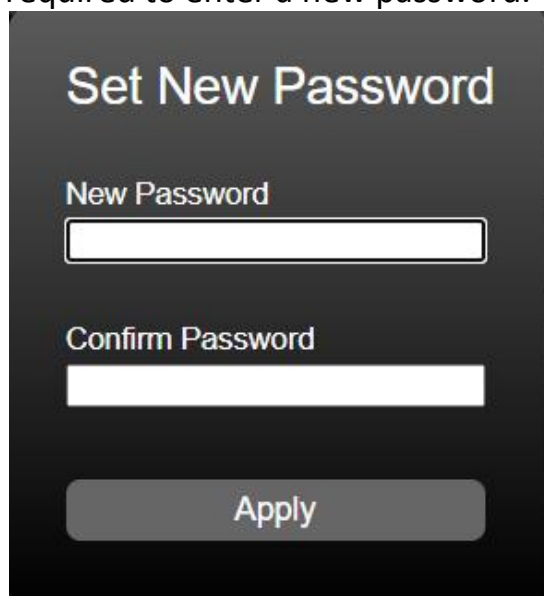
Launching the Configuration Utility

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**.

The image shows the login interface for the EDIMAX Pro configuration utility. At the top, the 'EDIMAX Pro' logo is displayed. Below it, the 'Model Name' is listed as 'GS-5424PLX'. The login form includes a 'Username' field with a person icon, a 'Password' field with a lock icon, and a 'Language' dropdown menu currently set to 'English'. A 'LOGIN' button is positioned at the bottom of the form.

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

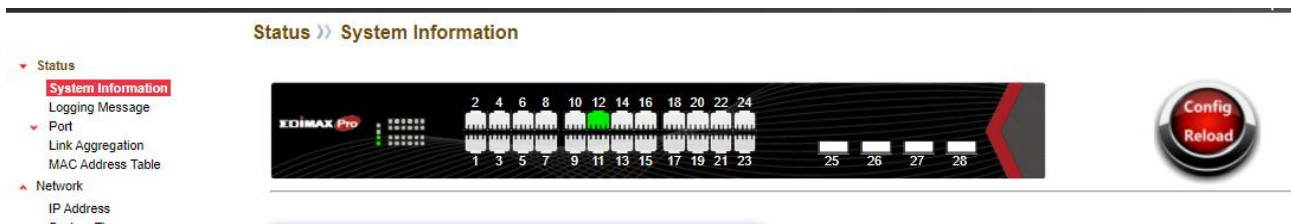
The image shows the 'Set New Password' screen. It features two input fields: 'New Password' and 'Confirm Password'. Below these fields is an 'Apply' button.

When the device is using the factory default IP address, its power LED flashes continuously. When the device is using a DHCP assigned IP address or an administrator-configured static IP address, the power LED is lit a solid color. Your computer's IP address must be in the same subnet as the switch. For example, if the switch is using the factory default IP address, your computer's IP address can be in the following range: 192.168.2.x (whereas x is a number from 2 to 254). After a successful connection, the login window displays.

IV Surveillance VLAN Configuration

IV-1 Config Reload Button

You can easily create Surveillance VLAN by pressing the “Config Button” on System Information page.



Please follow the steps below to load default Surveillance VLAN configurations:

1. Click  and Tab OK to continue.

Restore to factory defaults except IP. You need to reboot the device to take effect. Do you want to continue?

OK

Cancel

2. Tab OK to continue.

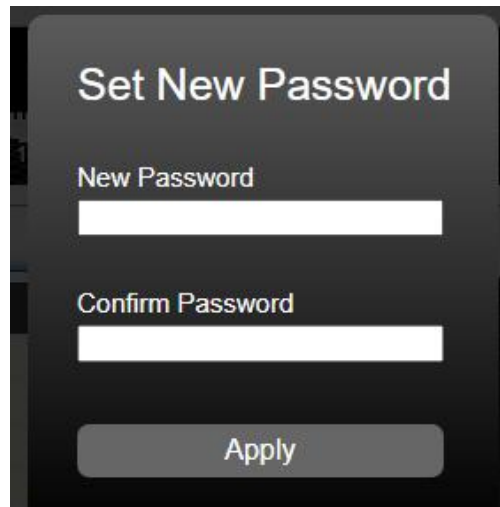
Reboot the device to take effect now. Do you want to continue?

OK

Cancel

NOTE:

1. The IP address won't be changed after system restarted
2. The Surveillance VLAN 10 has been created
3. Enter your new password and confirm password



A dark-themed form titled "Set New Password". It contains two input fields: "New Password" and "Confirm Password". Below the fields is a grey "Apply" button.

3. You can check out the differences after "Config Reload".

VLAN >> VLAN >> Create VLAN

Available VLAN

- VLAN 2
- VLAN 3
- VLAN 4
- VLAN 5
- VLAN 6
- VLAN 7
- VLAN 8
- VLAN 9

Created VLAN

- VLAN 1
- VLAN 10

Apply

VLAN Table

Showing All entries Showing 1 to 2 of 2 entries

	VLAN	Name	Type
☐	1	default	Default
☐	10	surveillance vlan	Static

Edit Delete

IV-2 ONVIF Compliant Devices into Surveillance VLAN

Please follow the steps below to add the ONVIF compliant devices into Surveillance VLAN 10.

1. Click the Add button.
2. Fill in the OUI on the Surveillance OUI table below.
3. Click the “Apply” button to complete the process.

The screenshot shows a web interface for configuring the Surveillance OUI table. The breadcrumb path at the top is "VLAN >> Surveillance VLAN >> Surveillance OUI". On the left is a navigation menu with categories like Status, Port, Network, PoE, VLAN, Voice VLAN, MAC VLAN, Surveillance VLAN, and MAC Address Table. The "Surveillance OUI" option under "Surveillance VLAN" is highlighted. The main content area is titled "Surveillance OUI Table" and shows a table with columns "Description", "OUI", and "OUI Mask". Below the table are "Add", "Edit", and "Delete" buttons. Step 1 points to the "Add" button. Below the table is a form titled "Add Surveillance OUI" with fields for "OUI" (formatted as XX:XX:XX) and "Description". Step 2 points to the "OUI" input field. Below the form is a note: "NOTE: 16 maximum user defined OUI allowed." and "Apply" and "Close" buttons. Step 3 points to the "Apply" button.

Note: OUI (Organizationally Unique Identifier). The first three octets of MAC address are the OUI. OUI can be found in both Surveillance Mode and Standard Mode or printed on your IP cam/NVR.

XX:XX:XX:XX:XX:XX

IV-3 OUI in Surveillance Mode

You can find the OUI in surveillance mode from IPC Discover section.

1. Switch to Surveillance Mode.
2. Click ONVIF (IPC Discover).



IPC Discover

☐	Device Name	IP Address	MAC Address	Port ID	Status
☐	IPC_GE06	192.168.2.111	50:DE:19:60:18:5A	GE6	unAuth

OUI in Standard Mode

You can find the OUI in standard mode from Mac Address Table.

1. Switch to Standard Mode.
2. Click Status (Mac Address Table).

Status >> MAC Address Table

- ▼ Status
 - System Information
 - Logging Message
- ▼ Port
 - Link Aggregation
 - MAC Address Table**
- ▼ Network
- ▼ Port
- ▼ PoE
- ▼ VLAN
- ▼ MAC Address Table
- ▼ Spanning Tree

MAC Address Table

Showing entries

VLAN	MAC Address	Type	Port
1	EC:8E:C4:0D:1A:5E	Management	CPU
1	50:DE:19:60:18:5A	Dynamic	GE6
1	8C:04:BA:0C:37:79	Dynamic	GE12

Clear

Refresh

V *Definitions of VLAN Membership*

- All ports are belong to VLAN1 (VID 1) by default
- 1UP means : VID=1; PVID=1
- 1UP, 10U means : VID=1, 10; PVID=1

VLAN >> VLAN >> Membership

- ▲ Status
 - System Information
 - Logging Message
- ▼ Port
 - Link Aggregation
 - MAC Address Table
- ▼ Network
- ▼ Port
- ▼ PoE
- ▼ VLAN
 - ▲ VLAN
 - Create VLAN
 - VLAN Configuration
 - Membership**
 - Port Setting
 - ▼ Voice VLAN

Membership Table

	Entry	Port	Mode	Administrative VLAN	Operational VLAN
☐	1	GE1	Hybrid	1UP	1UP
☐	2	GE2	Hybrid	1UP	1UP
☐	3	GE3	Hybrid	1UP	1UP
☐	4	GE4	Hybrid	1UP	1UP
☐	5	GE5	Hybrid	1UP	1UP
☐	6	GE6	Hybrid	1UP	1UP, 10U
☐	7	GE7	Hybrid	1UP	1UP
☐	8	GE8	Hybrid	1UP	1UP
☐	9	GE9	Hybrid	1UP	1UP

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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

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

AT	BE	CY	CZ	DK	EE	FI	FR	DE	GR	HU		
IE	IT	LV	LT	LU	MT	NL	PL	PT	SK	SI	ES	SE
GB	IS	LI	NO	CH	BG	RO	RU	TR	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: 24-Port Gigabit PoE, Long rang, 10GbE uplinks Switch
Model No.: GS-5424PLX

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) : IEC 62368-1:2014 (2nd Edition) and/or EN 62368-1:2014+A11:2017

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Taiwan



Date of Signature: Sep., 2020

Signature:

A handwritten signature in black ink, appearing to read 'Albert Chang', written over a horizontal line.

Printed Name:

Albert Chang

Title:

Director

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