



# EDIMAX ES-1008PHE 8 Port Fast Ethernet Switch Installation Guide

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## ES-1008PHE 8 Port Fast Ethernet Switch

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## PRODUCT INTRODUCTION

### Model no.:

ES-1008PHE: 8-Port Fast Ethernet Switch with 4 PoE Ports

GS-1008PHE: 8-Port Gigabit Ethernet Switch with 4 PoE Ports

### Package Contents

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

- PoE switch x 1pcs
- Quick installation guide x 1pcs
- Power adaptor x 1pcs
- Power cord x 1pcs
- Rubber feet x 4pcs
- Terminal Block x 1pcs

### Safety Precautions

To avoid any device damage and bodily injury caused by improper use, please observe the following rules.

\*Keep the power off during the installation.

\*Wear an ESD-preventive wrist strap, and make sure that the wrist strap has a good skin contact and is well grounded.

\*Use only the power cord provided with the Switch.

\*Make sure that the supply voltage matches the specifications indicated on the rear panel of the Switch.

\*Ensure the vent hole is well ventilated and unblocked.

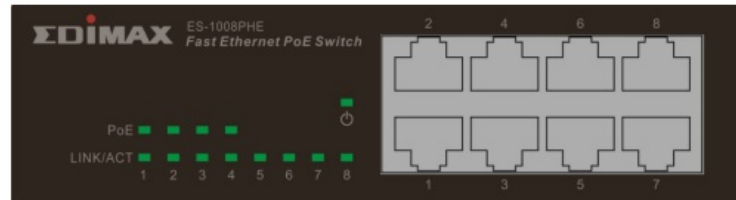
\*Do not open or remove the cover of the Switch.

\*Before cleaning the device, cut off the power supply. Do not clean it by the waterish cloth, and never use any other liquid cleaning method.

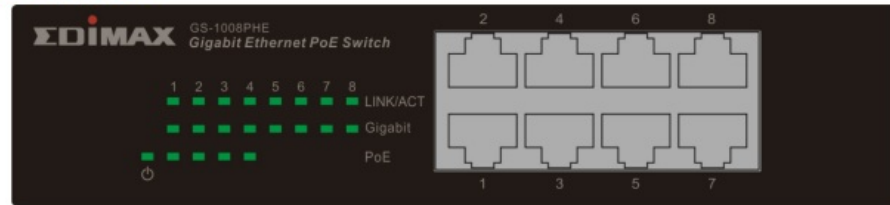
### Front Panel

Please refer to the following description for the front panel:

## \*ES-1008PHE



## \*GS-1008PHE

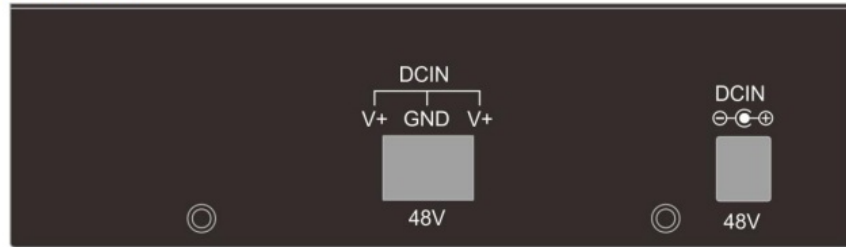


### LED Definitions:

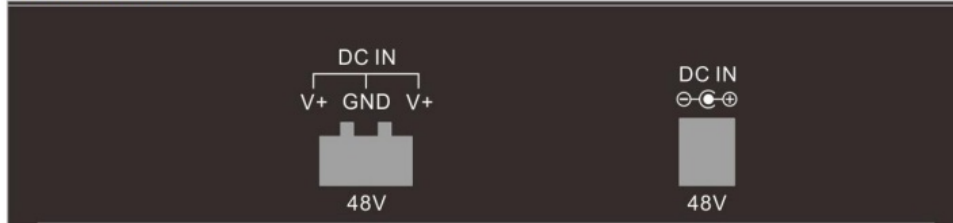
LED Name	Light Status	Description
PWR	On	Switch powered on
	Off	Switch not powered
LINK/ACT	On	The port is connected to 100M network
	Off	The port is not connected or connected to 10M network
	Flashing	The port is transmitting /receiving data.
Gigabit (GS-1008PHE)	On	There is a 1000Mbps device connected to the corresponding port.
	Off	There is a 10Mbps device connected to the corresponding port, or there is no device connected to the corresponding port.
	Flashing	The port is transmitting /receiving data.
PoE	On	There is a PoE PD connected to the port, which supply power successfully.
	Off	No PD is connected to the corresponding port, or no power is supplied according to the power limits of the port.

### Back Panel:

### \*ES-1008PHE



### \*GS-1008PHE



#### Power Connector:

Plug in the DC power plug from provided power adaptor to the 48V DC IN jack and plug the AC power plug to the wall socket using the included power cord.

**Terminal Block:** Used for connection to auxiliary backup DC power, supported input voltages is DC 48V/1A.

#### Product Specifications:

Model		ES-1008PHE	GS-1008PHE
Standards		IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3af PoE IEEE 802.3x Flow Control IEEE 802.3az Energy Efficient Ethernet	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3af PoE IEEE 802.3x Flow Control IEEE 802.3az Energy Efficient Ethernet
Interface	RJ-45	8 ports	8 ports
	PoE	4 ports	4 ports
MAC Address		1K	8K
Buffer Memory		56KB	128KB
Jumbo Frames		N/A	9K
Power budget		48W	
Power Consumption		5 Watts (Max. with no PD connected)	
Dimensions		146 x 84 x 42 (L x W x H)	165 x 118 x 38 (L x W x H)
Weight		0.39kg	0.55kg
Operating		0 to 50°C	
Storage Temperature		-40 to 70°C	
Humidity		Operating:10 to 90% RH (non-condensing)	

#### Note:

\* PoE budget: Up to 15.4 Watts max per port, 43 Watts Total

\* Please ensure you do not exceed the PoE power budget and overload the PoE switch.

**For example:**

	7.7W	15.4W
Max. PoE ports (up to)	4 ports	2 ports

\* Make sure the PDs that you connected to the Switch are compliant with IEEE802.3af standard.

## PRODUCT INSTALLATION

I. Install the switch on a level surface that can support the weight of the unit and the relevant components, and attach the rubber feet to the bottom. The rubber feet cushion the switch and helps protect the case from scratches.

II. Plug the switch into an electrical source with the provided power cord.

Regarding the installation environment, we strongly recommend:

1. The switch should be placed in an appropriately ventilation environment. A minimum 25 mm space around the unit is recommended.
2. The switch and the relevant components should be kept away from sources of electrical noise such as radios, transmitters and broadband amplifiers.
3. Avoid environments with higher than recommended moisture levels.

## Troubleshooting

1. Power LED is not lit

Check if the power cord is properly connected to the plug and the power outlet; make sure the power cord is firmly plugged into the power socket of the switch.

2. LINK/ACT LED is not lit when connected to devices

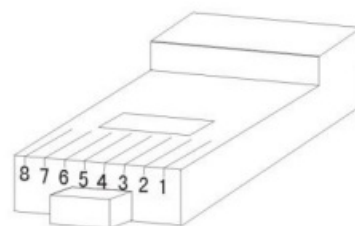
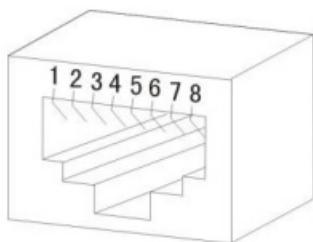
- Make sure the network device attached to the switch is turned on.
- Make sure the network cable is properly connected to the switch and the network device.
- Make sure the network cable is a UTP cable that complies with EIA/TIA 568 and Category 5 specifications.

**[!] Contact your dealer if problem persist.**

## Appendix: The standard RJ-45 Introduction

RJ-45 Pin:

Below is an indication of a standard RJ-45 socket and plug, and definition for the pins.

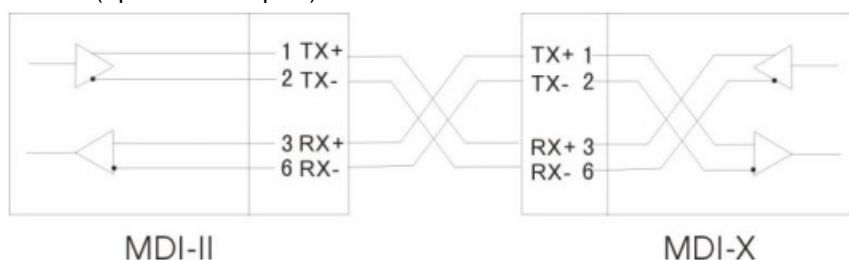


RJ-45 Connector pin signal:

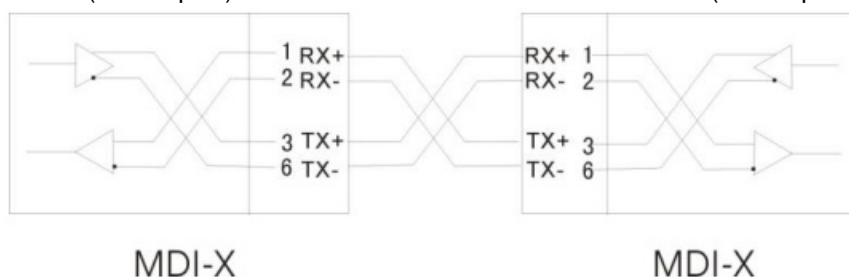
RJ-45 Connector pin signal		
Pin no.	MDI-II signal	MDI-X signal
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
4	POE –	POE –
5	POE –	POE –
6	RX-	TX-
7	POE +	POE +
8	POE +	POE +

The following shows straight cable and crossover cable connection, ordinary please use straight cable to connect switch/Hub or other devices:

Straight cable for the switch (uplink MDI-II port) to switch/Hub or other devices connection



Cross over cable for switch (MDI-X port) to switch/hub or other network devices (MDI-X port) connection.



## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

**FCC Caution**

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

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

**CE Mark Warning**

This is a class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**EU Declaration of Conformity**

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC and 2006/95/EC

**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 Council directive (2004/108/EC and 2006/95/EC).

Equipment : 8-Port Fast / Gigabit PoE Switch

Model No. : ES-1008PHE / GS-1008PHE

The following European standards for essential requirements have been followed:

EMC : EN 55022:2010

EN 55024:2010

EN 61000-3-2:2006 + A2:2009

EN 61000-3-3:2008

Safety (LVD) : EN 60950-1 : 2006+A11:2009+A1:2010+A12:2011

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No. 3, Wu Chuan 3 rd Road,

Wu-Ku Industrial Park,

New Taipei City, Taiwan

Date of Signature: July, 2014

A handwritten signature in black ink, appearing to read 'Albert Chang'.

Signature:




Printed Name: Albert Chang

Title: Director Edimax Technology Co., Ltd.





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## Documents / Resources

	<p><a href="#">EDIMAX ES-1008PHE 8 Port Fast Ethernet Switch</a> [pdf] Installation Guide ES-1008PHE 8 Port Fast Ethernet Switch, ES-1008PHE, 8 Port Fast Ethernet Switch, Fast Ethernet Switch, Ethernet Switch</p>
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## References

-  [EDIMAX - Networking Solution Provider including SMB Wi-Fi Access Point, AP Controller, SMB and Industrial PoE++ L2+ Switch, Industrial Embedded Wireless \(Wi-Fi, Bluetooth\) USB Dongle \(Adapter\), Wi-Fi Smart Plug, IoT, Smart Home](#)
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