

# User Guide

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## 8GE (PoE) +2G Combo LCD PoE Switch

This document applies to the 8GE (PoE) +2G Combo LCD PoE Switch. The 8GE (PoE) +2G Combo is used as an example in the product figure unless otherwise specified.

## Packing List

When using the Switch for the first time, carefully open the packing box. The packing box should contain the following items:

- Switch \*1
- User Manual \*1
- Power Cord \*1
- Rack Mount Kit \*2
- Screw \*8
- Feet \*4

 **Note:** Precision devices are built in the device, please handle them carefully to avoid violent vibration, which may affect the performance of the device. If you find that the equipment is damaged or any parts are lost in the process of transportation, please inform us, we will give you a proper solution as soon as possible.

## Chapter 1 Product Introduction

### 1.1 Product Overview

8GE (PoE) +2G Combo LCD PoE Switch Provides 8\*10/100/1000Mbps adaptive RJ45 PoE ports and 2\*1000Mbps Combo ports. All RJ45 ports support wire speed forwarding and automatic flip, no configuration required, plug and play. Ports 1-8 support the PoE function, which automatically detects PD devices that comply with IEEE 802.3at/af standards. Each PoE port provides a maximum of 30W power. Visual LCD can display PoE working status and accurately judge port working status and load. This helps customers and cabling engineers discover and solve problems in time, rectify network faults, and improve work efficiency and project quality.

## Chapter 2 Product Appearance Description

### 2.1 Front Panel

The front panel consists of 8\*10/100/1000Mbps adaptive RJ45 ports and 2\*1000Mbps Combo ports and related indicators, as shown in the following figure:

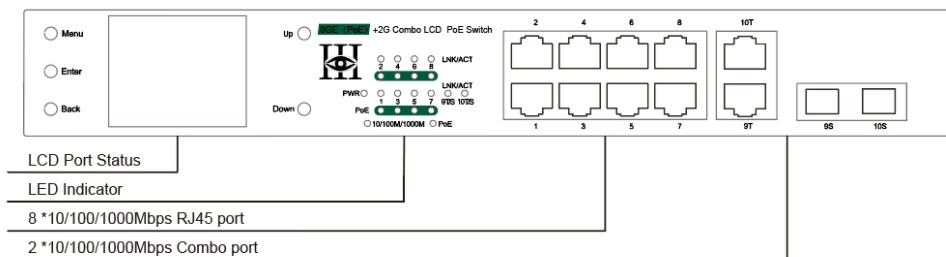


Figure 2-1 Front panel of the 8GE (PoE) +2G Combo LCD Switch

8GE (PoE) +2G Combo Port description:

#### ➤ 10/100/1000Mbps RJ45 Ports

Supports 10Mbps, 100Mbps, or 1000Mbps rate adaptation, auto-MDI /MDIX, and each port has a corresponding indicator, that is, port indicators 1-8 as shown on the panel in the figure above.

#### ➤ 1000Mbps Combo Ports

Combo ports is located on the right side of the panel. It is an optical multiplexing ports. Each port has a corresponding indicator, that is, port indicator 9-10 as shown in the panel above.

#### ➤ LED Indicator

The LED indicator is used to indicate the different working status of the Switch, so that we can check whether the Switch is working properly in time.

## 2.2 LED Indicator

The LED indicators of the Switch are shown in the following table. Users can monitor the work and running status of the Switch conveniently and quickly through the following indicators:

LED	Color	Function
PWR	Green	Off: No Power supply. Light: Indicates the switch has power.
PoE	Orange	Off: No PoE powered device (PD) connected. Light: There is a PoE PD connected to be port, which supply power successfully. Blink: Indicates port abnormal PoE supply.
LNK/ACT	Green	Off: The network is not connected. Steady on: A 10/100/1000M network device is connected. Blinking: Data is being transferred.

## 2.3 Rear panel

The rear panel of a Switch shows the AC power port. The power input ranges from 100 - 240V AC at 50/60 Hz.

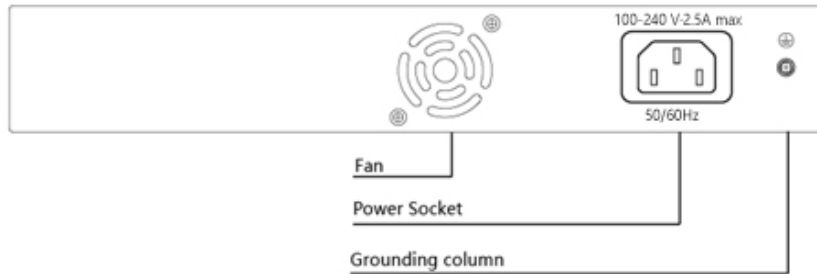


Figure 2-2 Rear panel of the 8GE (PoE) +2G Combo LCD Switch

### AC power port

This is an AC power socket, connect the negative plug of the power cord to this interface, and connect the positive plug to the AC power supply.

### Lightning protection grounding pole

It is located to the left of the power interface. Please use wire grounding to prevent lightning strike.

## 2.4 LCD Features

The PoE Switch with the function of the LCD display and PoE. The LCD can display the working condition of PoE port not only, still can accurately show the state of each port such as :Output power, Overload, Short circuit, Light load, Low voltage , Over voltage High temperature, and so on



Figure 2-3 Schematic diagram of LCD screen working condition

Not only such visible on the basis of three generations in the second generation increased color logo display, menu button, switch mode, bandwidth and early warning, PD type, PSE power fine-tuning and priority, PoE port Switch control, LCD, increased the LCD viewing angles, smart fan control, choice of language and the factory Settings, and other functions, as shown in the figure below:

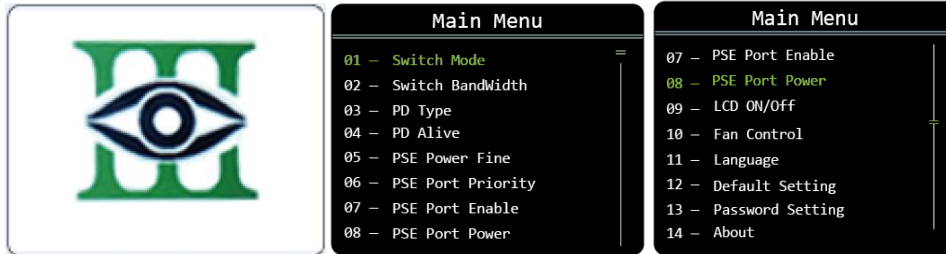


Figure 2-4 LCD function menu diagram

## Chapter 3 Installation Guide

This chapter helps users correctly install and safely use Switches.

### 3.1 Installation Precautions

**⚠ Precautions:** To avoid equipment damage and personal injury, observe the following precautions:

- The Switch room should be dry and ventilated, free from corrosive gases and strong electromagnetic interference.
- The humidity of the Switch equipment room should be lower than 90%. Install proper devices when possible.
- The grounding of the Switch shall comply with the grounding requirements described in this manual, and shall be separately and well grounded.
- Keep a proper distance between the Switch and other devices. Do not stack other devices with the Switch.
- The connection cable between the Switch and the distribution frame should be standardized and reasonable, and the distribution frame (box) jumper wire should be concise and clear to prevent the phenomenon of parallel lines and wires;
- To avoid the danger of electric shock, do not open the chassis without authorization; If any fault occurs, contact professional maintenance personnel.



### Safety Tips:

- Use a three-hole socket with safe grounding, and ensure that the PGND cable of the power socket is properly grounded.
- Ensure sufficient space for heat dissipation and ventilation of the Switch. Do not place heavy objects on the Switch.

## 3.2 Installation Environment

Before installation, make sure that the proper working environment is available, including power requirements, adequate space, proximity to other equipment to be connected, and other equipment in place. Please confirm the following installation requirements:

- Ensure the stability of the workbench and good grounding;
- Check whether cables and connectors required for installation are in place (less than 100m).
- Environmental requirements: working temperature is 0°C ~ 40°C Relative humidity is 5% ~ 90%.

## 3.3 Installation

### Desktop installation

- Place the bottom of the Switch face up on a large enough stable desktop;
- Tear off the attached sticky paper on the surface of the footpad and paste the footpad into the groove at the bottom of the chassis of the Switch to prevent external vibration;
- Carefully position the Switch upright on the workbench;

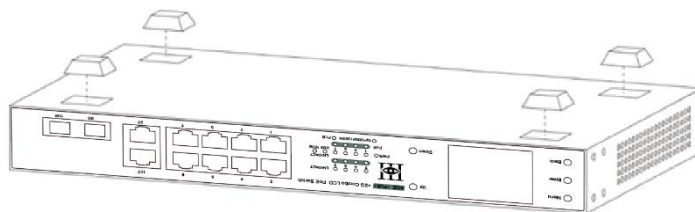


Figure 3 - 1 Desktop Installation Diagram

### Rack mounted

- Check the grounding and stability of the EIA-19inch cabinet;
- Fix mounting ears to both sides of the front panel of the Switch using screws. Place the Switch on a bracket of the cabinet and move the Switch along the guide rails of the cabinet to a proper position;
- Use screws to fix mounting ears to the guide rails at both ends of the cabinet

to ensure that the Switch is securely installed on the brackets in the cabinet slots. The mounting ear of the device is not used for weight bearing, it is only used for fixation;

- When installing devices in a cabinet, brackets (fixed on the cabinet) are provided below the device chassis to support devices.

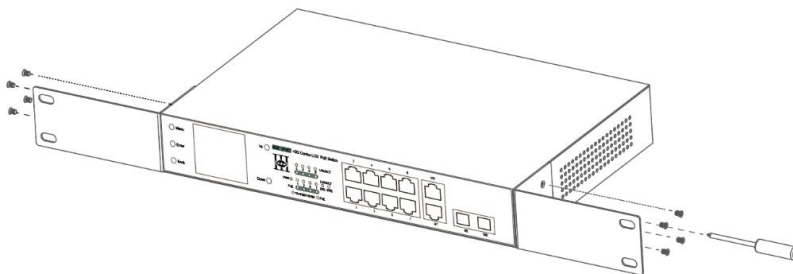


Figure 3-2 Diagram 1 of rack installation

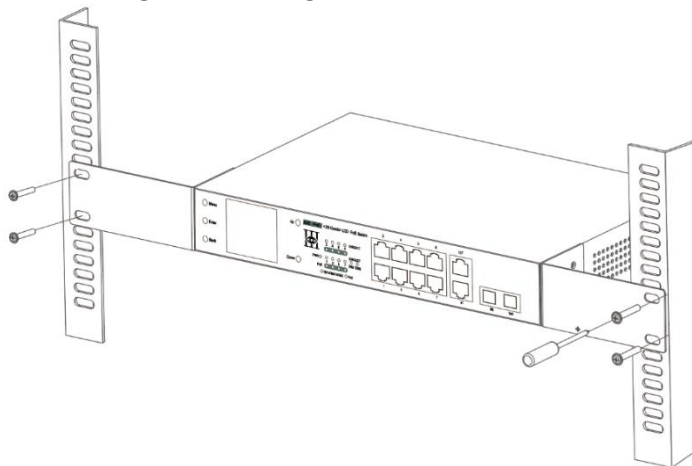


Figure 3-3 Diagram 2 of rack installation

### 3.4 Enabling the Switch

Connect the power cord, plug in, and turn on the power. After the Switch is started, the Switch automatically initializes. If all port indicators are on and off, the system is successfully reset. The power LED indicator is steady on.

**Note:** Before powering on the device, ensure that the voltage is correct; otherwise, the device may be damaged. (Power input range: 100-240V AC 50/60Hz).

## Appendix: Technical Specifications

Model	8GE(PoE)+2G Combo LCD PoE Switch
Standard	IEEE802.3, IEEE802.3 u, IEEE 802.3z, IEEE 802.3 3x, IEEE802.3az, IEEE802.3ab, IEEE802.3af, IEEE802.3at
Network Media(Cable)	10BASE-T: UTP category 3, 4, 5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e cable (≤100m) 1000BASE-X: MMF or SMF SFP module(Optional)
LCD Display Function	LCD real-time display PoE working condition
MAC Address Table	4K, Auto-learning, Auto-updating
Jumbo Frame	9216Byte
Packet Buffer	1.5Mbit
Transfer Mode	Store-and-Forward
Switching Capacity	20Gbps
Packet Forward Speed	14.88Mpps
PoE Power Supply	Mode A 1/2(+) 3/6(-)
PoE Output	30W Max
PoE Budget	120W
Power Supply	130W
Input Voltage	AC 100-240V 50/60Hz
Dimensions (L*W*H)	280*180*44mm
Fan	1
Temperature	Operating Temperature: 0°C ~ 40 °C Storage Temperature: -40 °C ~70°C
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing