

# ES1008G-8POE-150W-P(220VAC)

## Full Gigabit Unmanaged POE

### Switch

### User manual

**Shenzhen 3onedata Technology CO.,Ltd**

Address:3/B, Zone 1, Baiwangxin High Technology Industrial  
park, Song Bai Road,Nanshan District,ShenZhen,  
518055,China

Website:www.3onedata.com

Tel:+86 0755-26702688

Fax:+86 0755-26703485

### 【Introduction】

ES1008-8POE-150W-P(220VAC) is Full Gigabit , 8-port Gigabit high power (IEEE 802.3at) PoE Switches , utilizing a compact factor which can be mounted in a 19-inch rack with rack-mounting kits or placed on desktop.

With data and power supported by one unit, the POE Switch shall reduce cables and eliminate the need for dedicated electrical outlets on the wall ,ceiling or any unreachable place. Auto POE detection and Plug and play installation makes the Gigabit POE Switch easy to use and with clear LED indicators to tell the working condition.

### 【Packing List】

Please check the packaging and accessories by your first using.

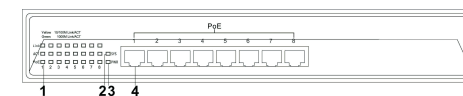
- POE Switch × 1
- User's Guide × 1
- Certificate of quality × 1
- Warranty card × 1

### 【Features】

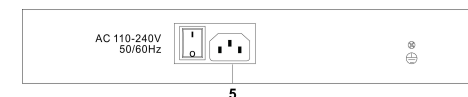
- Compatible with both IEEE802.3at(30W) and IEEE802.3af (15.4W)
- Automatically detect and supply power to IEEE802.3at and IEEE802.3af compliant powered devices(PDs)
- Advanced SAFC function, only supply power to IEEE 802.3af/at compliant PDs, no worry about damaging other private standard POE devices or devices without POE function
- Support port power supply prioritization, guarantee the continuous power supply of key nodes
- Up to 100m network cable transmitting distance
- Built-in PSE power supply module, plug-and play design, easy to install
- High security performance defending against power surge
- Support short-circuit protection function
- Energy-saving green design, support auto-switch to standby mode and auto-detect cable length

### 【Panel Layout】

### Front panel

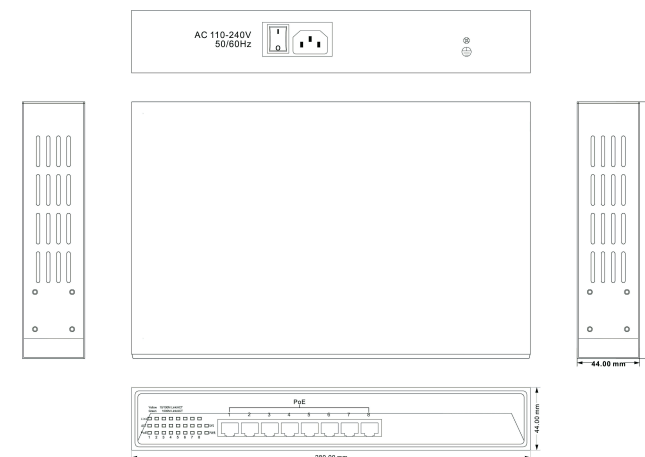


### Back panel

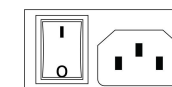


1. The corresponding interface LED indicator
2. System Indicator
3. Power Indicator
4. 10Base-T /100Base-T/1000Base-TX port
5. Power input socket and switch

### 【Dimension】



### 【Power Input】

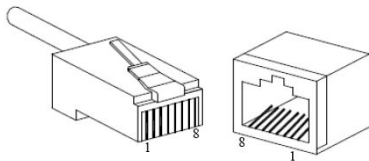


The POE Switch provides three power socket rear panel Used in the AC power input (220 VAC)

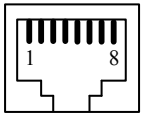
### 【Communication Connector】

**10/100/1000BaseT(X) Ethernet port**

10Base-T/100Base-TX/1000 Base-TX Ethernet port use in front panel, It is RJ45 port, the PIN define of RJ45 is as follows: connection adopt UTP or STP, the distance is no more than 100m, 1000Mbps use cat5e, 100Mbps use cat5, 10Mbps use cat3,4, 5.



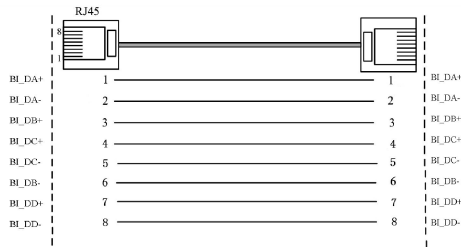
RJ45 port support MDI/MDI-X self-adaption. In (MDI), PIN1, 2, 3, 4, 5, 6, 7, 8 connect corresponding, in (MDI-X) PIN1→3, 2→6, 3→1, 6→2, 4→7, 5→8, 7→4, 8→5. In MDI/MDI-X, 1000 Base-TX PIN define is as follows:



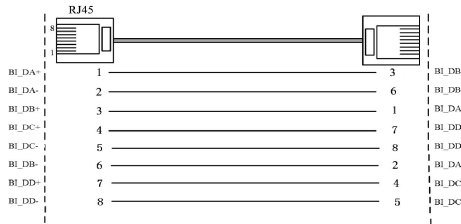
PIN	10/100Mbps		1000Mbps	
	MDI	MDI-X	MDI	MDI-X
1	TX+	RX+	BI_DA+/TX+	BI_DB+/RX+
2	TX-	RX-	BI_DA-/TX-	BI_DB-/RX-
3	RX+	TX+	BI_DB+/RX+	BI_DA+/TX+
4	-	-	BI_DC+/-	BI_DD+/-
5			BI_DC-/-	BI_DD-/-
6	RX-	TX-	BI_DB-/RX-	BI_DA-/TX-
7	-	-	BI_DD+/-	BI_DC+/-
8	-	-	BI_DD-/-	BI_DC-/-

Note: “TX±” Transmit Data±, “RX±” Receive Data±, “—” Not Use.

MDI (straight-through cable):



MDI-X (Cross over cable)



MDI/MDI-X auto connection makes switch easy to use for customers without considering the type of network cable.

【LED Indicator】

The POE Switch indictor light on the front panel. the function of each LED is described in the table as below.

LED	Indicat or	Description
PWR	ON	Power connection regularly
	OFF	Power supply have no connection or unwonted
Sys	Blinking	Software running in the CPU
	Destroy/normally on	The software runs abnormally in the CPU
Link/ACT	ON	Established effective network connection
	Flashing	Network in activity statues
	OFF	Did not established effective network connection
	Yellow	The 10/100M ports auto-negotiate

POE		connected
	Green	The 1000Mbps ports auto-negotiate connected
	ON	The POE function works
	Flashing	The POE ports failed to work or the PDs are overloaded

【Installation】

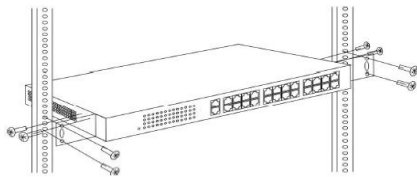
Operation Cautions

- 1) Don't stock the device in damp environment or near water, to avoid water or moisture penetrating into the inner device.
- 2) Don't put the device on a unstable box or desk, the device will get damaged from falling.
- 3) Please check and make sure the operation voltage is meet the voltage standard marked on the device surface before the next steps.
- 4) Please use a grounded three-hole power socket in the rack or desk mounting, to mitigate damage caused by electro-static discharge or lightning stoke.
- 5) Keep the device far from heat sources, strong power radio transmitters and radar transmitters.
- 6) Similar with other electrical products, the semiconductor chip in device will get damaged when open and shut off the power frequently. Please restart the device 3~5 seconds(or longer) after the power is shut off.
- 7) Please pull out the power plug before cleaning the device. Don't wipe the device with wet cloth or clean the device with liquid.
- 8) To guarantee a long operation life, the device can only be used in indoor and in ventilated & dry environment. And to get a good heat dissipation, please reserve a space over 10CM around the device.

Rack Mounting

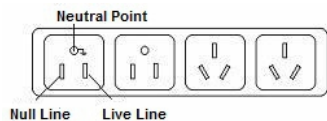
**Note: Generally, switches with 8 ports or more ports can be mounted in a standard 19-inch equipment rack defined by Electronic Industries Association(EIA).**

- 1) Please first attach the two L-shaped brackets to the device sides, using the screws provided in the bracket mounting kit.
- 2) Mount the device in the rack, using rack mounting screws( not provided).



### Making power connection

POE switches is designed for AC 90~264V/50~60Hz Power Supply. We advise to adopt a one-phase 3-wire power socket with neutral point joint or multifunctional computer power socket. Please make sure there are no problems on power supply, connection and grounding before you start operating the POE devices, or the devices will get damaged.



Connecting Instruction:

- 1) Connect one end of power cord into the AC power socket of POE device rear panel, and then connect the other end to the external AC power supply socket.
- 2) Check the “Power” indicator on the POE device front panel, the LED will be on if successfully connected.

### 【Specification】

#### Technology:

Standard and Protocols: IEEE 802.3af, Power Over Ethernet、IEEE 802.3at, Power Over Ethernet Plus

IEEE 802.3u, 100BASE-TX、IEEE 802.3ab, 1000 BASE-T、IEEE 802.3x, Full-Duplex Flow Control、IEEE 802.3az, EEE(Energy Efficient Ethernet)

POE Standard: IEEE802.3af/at

Port Flow control: Back-pressure traffic control under Half-Duplex mode, IEEE 802.3x traffic control under Full-Duplex mode

#### Interface:

RJ45: 10 /100/1000Base-TX auto speed control, Half/full duplex and MDI/MDI-X auto detect

PoE Pin-out: 1/2(+), 3/6(-); Customized 4/5(+),7/8(-)

#### Exchange Properties:

100M forwarding rate: 1488095pps

100M forwarding rate: 148809pps

10M forwarding rate: 14880pps

Transmit type: Full wire-speed storage and forwarding

MAC address: 8K, Support auto-update, two-way learning

Switching Capacity:  $\geq 16$ Gbps

Spanning Tree: Spanning Tree Protocol

Rapid Spanning Tree Protocol(RSTP)

Port Flow Control: Back-pressure traffic control under Half-Duplex mode ,IEEE 802.3x traffic control under Full-Duplex mode

Port Rate Restriction: Port-based ingress or egress rate limiting

Jumbo Frame: Maximum support 9216Byte

#### Indicator light:

Interface light: Link/Act, POE Status

Power light: PWR

#### Power:

Input Power Supply: 90~264VAC/50~60Hz/150W

#### Working Environment:

Working Temperature: -20~50°C

Storage Temperature: -40~70°C

Operation Humidity:10%~90%(non-condensing)

Storage Humidity:5%~95%(non-condensing)

#### Mechanical Properties:

Weight: <1.5Kg

Dimensions (L×W×H) :280×180×44mm

**Energy Saving:** Comply with “EEE” Energy Efficient Ethernet

#### Warranty:

Warranty time: 3 years