

## ES5008G Series

### Full Gigabit Managed POE

### Switches

### User manual

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**【Summarize】**

ES5008G Series are Full gigabit , managed , 4/8-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 E5008G series 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 E5008G series 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 manual × 1
- CD × 1
- Certificate of quality × 1
- Warranty card × 1

Please inform us or our distributor if your equipments have been damaged or lost any accessories, we will try our best to satisfy you.

**【Features】**

- Compatible with both IEEE802.3at(30W) and IEEE802.3af(15.4W), can supply power to PDs under these two standards
- Automatically detect and supply power to IEEE802.3at and IEEE 802.3af 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

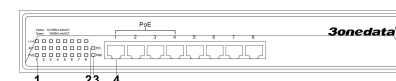
function

- 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
- Support simple WEB management, easy to configure the functions of switches

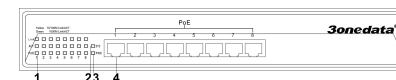
**【Panel Layout】**

Front pane

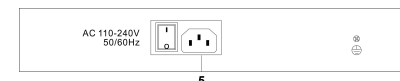
ES5008G-4POE-65W-P(220VAC)



ES5008G-8POE-150W-P(220VAC)



Back panel

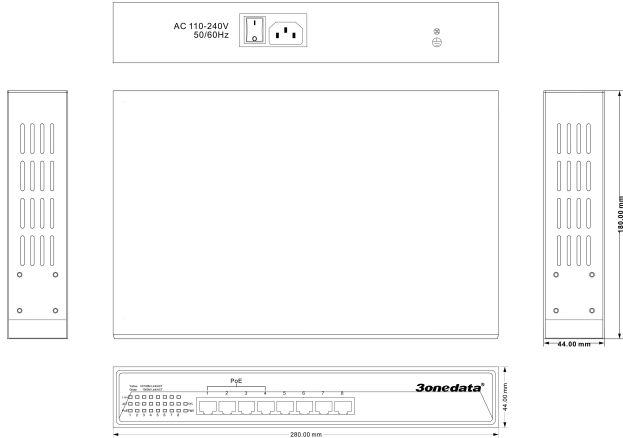


1. The corresponding interface LED indicator
2. System Indicator
3. Power Indicator
4. 10Base-T /100Base-T/1000Base-TX port
5. Power input socket and switch

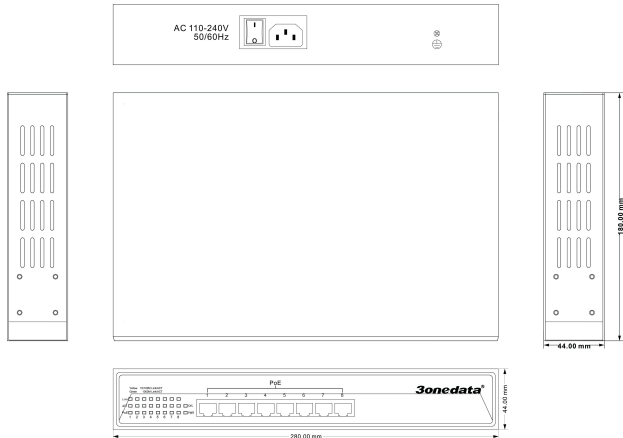
## 【Appearance and dimension】

### Unit(mm)

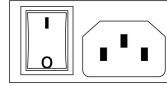
#### ES5008G-4POE-65W-P(220VAC)



#### ES5008G-8POE-150W-P(220VAC)



## 【Power supply input】



ES5008G series provides three power socket rear panel Used in the AC power input (220 VAC).

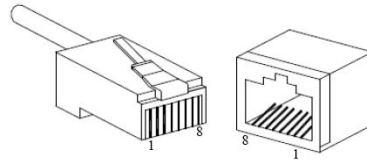
## 【Communication connector】

ES5008G -4POE-65W-P(220VAC): 4\*10/100/1000M PoE ports, 4\*10/100/1000Base-T ports.

ES5008G-8POE-150W-P(220VAC):8\*10/100/1000M PoE ports.

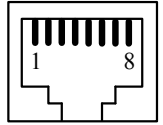
### 10/100/1000BaseT(X) Ethernet port

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.



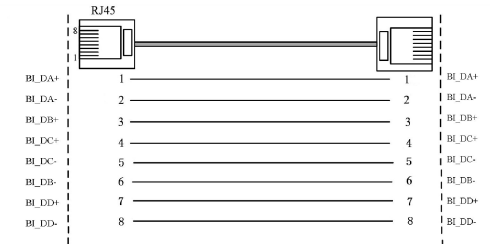
RJ45 port support MDI/MDI-X self-adaption. In (MDI), PIN1, 2, 3, 4, 5, 6, 7, 8 connect corresponding, in (MDI-X) PIN1→3, 2→6, 3→1, 6→2, 4→7, 5→8, 7→4, 8→5. In MDI/MDI-X, 1000 Base-TX PIN define is as follows:

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

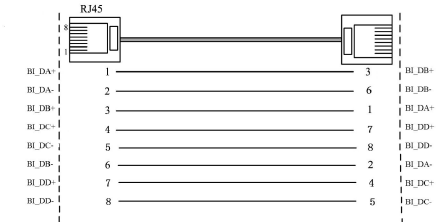


Note: “TX±” Transmit Data±, “RX±” Receive Data±, “—” Not Use.

### 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】

ES5008G series LED indicator 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/ normall y on	The software runs abnormally in the CPU
Link/A CT	ON	Established effective network connection
	Flashing	Network in activity statues
	OFF	Did not established effective network connection
	Yellow	The 10/100M ports auto-negotiate connected
	Green	The 1000Mbps ports auto-negotiate connected
POE	ON	The PoE function works
	Flashing	The PoE ports failed to work or the PDs are overloaded

### 【Installation】

Please read the following precautions carefully before operation, to avoid damaging the device or causing body injuries.

- 1). Please remove the power socket before cleaning the switch.

Don't wipe the switch with wet cloth or wash the switch with liquid.

- 2). Don't stock the device in damp environment or near water, to avoid water or moisture penetrating into the inner device.
- 3). Don't put the device on a unstable box or desk, the device will get damaged from falling.
- 4). Please keep good ventilation indoor, and make sure the heat dissipation function of switch works well.
- 5). The switch only works normally in suitable voltage. Please check the working voltage first.
- 6). Please don't open the switch enclosure randomly, especially when the switch is powered on, there is risk of electric shock.
- 7). Please wear anti-static wrist strap when change the interface board,to avoid the static electricity damage the board.

#### Check Installation Environment

The switch is for indoor use only, please pay attention to the following problems when install the switch in a cabinet or put the device directly on the desktop.

- 1) The air vents of switch must have enough space to dissipate the heat inside enclosure.
- 2) A good heat dissipation system in the cabinet or on the desktop.
- 3) The cabinet or desktop strong enough to support the weight of switch and installation accessories.
- 4) Safe ground connection for the cabinet or desktop.

#### Installation Tools

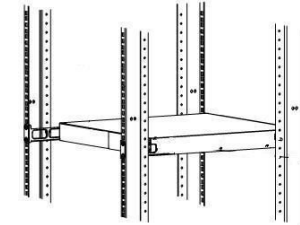
- 1) Flathead screw driver
- 2) Cross screw driver
- 3) Anti-static wrist strap

#### Installation

#### 1.Install the Switch

##### 1.1 Install the switch on a 19 inch standard cabinet

- 1) First fix the provided two L-shaped brackets on the two sides of switch.
- 2) Fix the switch on the rack with screws(screws are not provided).



##### 1.2 Install the switch on the desktop

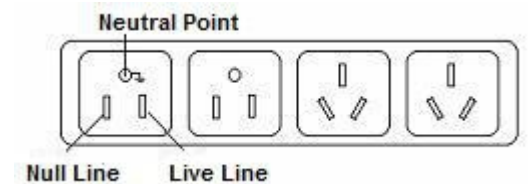
When there is no 19 inch standard cabinet, the switch is usually put on clean desktop. The operation is easier, please follow the below instructions:

- 1) Keep the desktop stable and safely grounded.
- 2) Set aside 10cm space around switch for heat dissipation.
- 3) Don't put any heavy device on the switch.

#### 2.Connect the power cord and grounded cord

##### 2.1 Select of AC Power Socket

The neutral one-phase 3-wire power socket is advised to adopt, or the multifunctional PC power socket. The neutral point of power supply must be well grounded, please check the grounded power supply before operation.



## 2.2 Connection of AC power cord

Step one: please connect one end of power cord to the power jack on the switch rear panel,

Connect the other end to the AC power socket.

Step two: check the power indicator(PWR) on the front panel, if the LED is on, connection is

Successful.

## 3.Test after Installation

Make sure the working voltage is the same with the rated voltage of switch.

Check the connection of grounded cord.

Check the connection of configuration cable and power input cord.

If the interface cable is partly deployed outdoor, please check the connection of anti-thunder

AC power strip and interface anti-thunder device.

### 【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 802.3z, 1000 BASE-X、IEEE 802.3ad, Static or Dynamic Link Aggregation、IEEE 802.3x, Full-Duplex Flow Control、IEEE 802.3az, EEE(Energy Efficient Ethernet)、IEEE 802.1q, VLAN  
IEEE 802.1p, QoS/CoS、IEEE 802.1d, STP(Spanning Tree Protocol)、IEEE 802.1w, Rapid Spanning Tree Protocol、

POE Standard: IEEE802.3af/at

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

#### Ports:

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

VLAN: Support up to 4096 VLANs,Port-based VLANs,VLANs based on IEEE 802.1q

Switching Capacity: ≥16Gbps

Spanning Tree: Spanning Tree Protocol, Rapid

Spanning Tree Protocol(RSTP),

Link Aggregation:Support 8 aggregation groups, and a maximum of 4 ports in each aggregation group

Port Mirroring: Support bi-direction port mirroring

Ring Protection:Support Ring Protection, provide real-time detecting, quick alarm,precise localization, smart blocking and auto-recovery

Port Isolation:Isolation between downlink ports without influence the communication between downlink and uplink ports

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

Multicast Control: Support IGMP Snooping

Storm Suppression:Support the suppression of broadcast storm

based on forwarding rate

Security:Port-base MAC address binding,Security restriction on port-based MAC address quantity

QOS:SP (Strict Priority) 、WFQ (Weighted Fair Queuing)、WRR (Weighted Round Robin) 、802.1p(Port Queuing Priority) 、Differentiated Service Code Point(DSCP Priority)

PoE output priority Management: Supported

Physic Medium:

10/100Base-TX: UTP category 3/4/5 cables( Maximum 100m)

1000Base-T: UTP Category 5 cable( Maximum 100m)

Network Cable Deployment:Support Auto-MDIX function, automatically identify straight forward cable and cross-over cable

Negotiation Pattern: Support port auto-negotiation

function( automatically negotiate transmission rate and Duplex modes)

Maintenance : Detect the connectivity of network cables , Uploading or downloading of the configuration data, Uploading of upgrade patch,

WEB-based reset to factory defaults, Support port short-circuit reset to factory defaults

Management: Support WEB-based management

#### Indicator light:

Interface light: Link/Act, POE Status

Power light: PWR

#### Power:

Input Power Supply:

ES5008G-4POE-65W-P(220VAC): 90~264VAC/50~

60Hz/65W

ES5008G-8POE-150W-P(220VAC):90~264VAC/50~

60Hz/150W

Energy Saving: Comply with “EEE” Energy Efficient Ethernet

**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) : 280×180×44.0mm

**Warranty:**

Warranty time: 3 years