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# Installation Guide

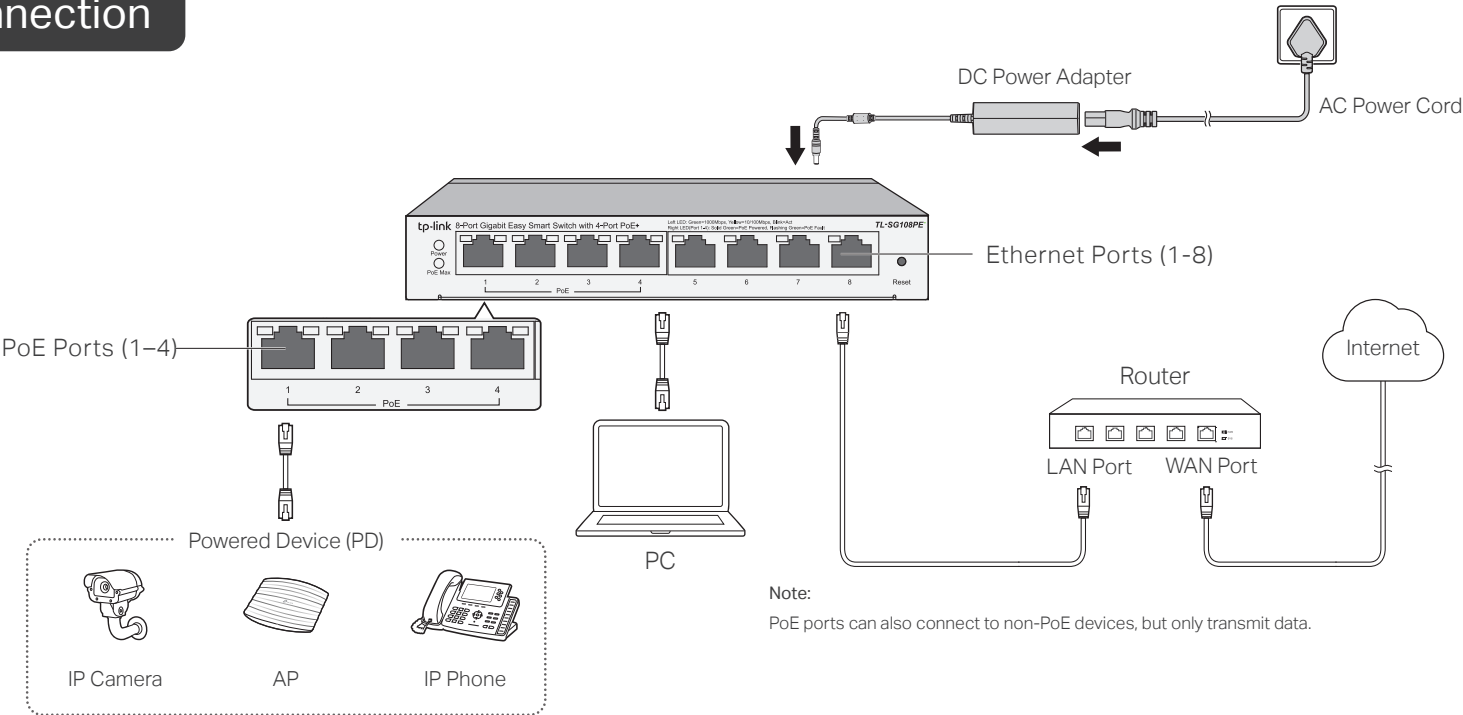
Gigabit Easy Smart PoE+ Switch

| Power                                                                             |
|-----------------------------------------------------------------------------------|
| On: Power on                                                                      |
| Flashing: Working abnormally or resetting                                         |
| Off: Power off                                                                    |
| Link/Act; Uplink1, Uplink 2                                                       |
| Green On:<br>Running at 1000 Mbps, but no activity.                               |
| Green Flashing:<br>Running at 1000 Mbps and is transmitting or receiving data.    |
| Yellow On:<br>Running at 10/100 Mbps, but no activity.                            |
| Yellow Flashing:<br>Running at 10/100 Mbps and is transmitting or receiving data. |
| Off:<br>No device is linked to the corresponding port.                            |

| PoE Status                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------|
| On: Providing PoE power                                                                                                          |
| Flashing: PoE fault                                                                                                              |
| Off: Not providing PoE power                                                                                                     |
| PoE MAX                                                                                                                          |
| For TL-SG105PE:<br>On: 58W≤Total power supply < 65W<br>Flashing: Total power supply ≥ 65W<br>Off: Total power supply < 58W       |
| For TL-SG105MPE:<br>On: 113W≤Total power supply < 120W<br>Flashing: Total power supply ≥ 120W<br>Off: Total power supply < 113W  |
| For TL-SG108PE:<br>On: 57W≤Total power supply < 64W<br>Flashing: Total power supply ≥ 64W<br>Off: Total power supply < 57W       |
| For TL-SG1210MPE:<br>On: 116W≤Total power supply < 123W<br>Flashing: Total power supply ≥ 123W<br>Off: Total power supply < 116W |

Note: For simplicity, we will take TL-SG108PE for example throughout this Guide.

## Connection



## Configuration

The switch is plug and play. To configure the switch, you can use the Web-based GUI or the configuration utility. The utility is only supported on Windows now.

### Using the Web-based GUI

- Find out the IP address of the switch.
  - By default, the switch receives an IP address from a DHCP server (typically a router with DHCP function enabled) in your network. You can find out this IP address on the DHCP server.
  - If the switch cannot receive an IP address from a DHCP server, it uses the static IP address of **192.168.0.1**, with a subnet mask of **255.255.255.0**.
- Configure IP address on your PC to make sure the switch and PC are in the same subnet.
  - If the switch uses an IP address assigned by a DHCP server, set your PC to obtain an IP address automatically from the DHCP server.
  - If the switch uses **192.168.0.1** as the IP address, configure your PC's IP address as **192.168.0.x** ("x" ranges from 2 to 254), and subnet mask as **255.255.255.0**.
- Launch a web browser on your PC, enter the IP address of the switch in the address bar and press **Enter**. Log in with **admin** as both user name and password.

Now you can configure the switch using the Web-based GUI. For further information, refer to the **User Guide**.

Go to <https://www.tp-link.com/support>, search the model number of your switch, and you can find this guide on the product **Support** web page.

- Note:**
- For certain devices, you may need to change the password the first time you log in, which will better protect your network and devices.
  - If the switch gets a new IP address from the DHCP server, your connection to the switch will be lost. Enter the new IP address in your browser to access the switch again.

### Using the Configuration Utility

- Go to <https://www.tp-link.com/support> and search the model number of your switch. Download the **Easy Smart Configuration Utility** from the product **Support** web page on your PC.
- Decompress the downloaded file, run the installation wizard and follow the prompts to install the **Easy Smart Configuration Utility**.
- Double click the icon  on the desktop, and the utility Home page will display a list of TP-Link switches on the local network.
- Click  to find out IP parameters of the switch.
  - If the switch uses an IP address assigned by a DHCP server, set your PC to obtain an IP address automatically from the DHCP server.
  - If the switch uses **192.168.0.1** as the IP address, configure your PC's IP address as **192.168.0.x** ("x" ranges from 2 to 254), and subnet mask as **255.255.255.0**.
- Double click the switch that you want to configure. Log in with **admin** as both user name and password.



Now you can configure the switch using the configuration utility. For further information, refer to the **Easy Smart Configuration Utility User Guide**.

Go to <https://www.tp-link.com/support>, search the model number of your switch, and you can find this guide on the product **Support** web page.

# Specifications

## General Specifications

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard                        | IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3af, IEEE 802.3at, IEEE802.3x, IEEE802.1p, IEEE802.1q<br>For TL-SG1210MPE: IEEE802.3z                                                                                                                                                                                                                                                                                                                 |
| Interface                       | For TL-SG105PE/TL-SG105MPE/TL-SG108PE:<br>5/8 10/100/1000 Mbps RJ45 Ports<br>Auto-Negotiation, Auto MDI/MDIX;<br>PoE Ports: Port 1– Port 4<br>For TL-SG1210MPE:<br>10 10/100/1000 Mbps RJ45 Ports<br>Auto-Negotiation, Auto MDI/MDIX;<br>1 1000 Mbps SFP port (Combo);<br>PoE Ports: Port 1-Port 8                                                                                                                                                 |
| Data Transfer Rate              | Ethernet: 10 Mbps (Half Duplex), 20 Mbps (Full Duplex)<br>Fast Ethernet: 100 Mbps (Half Duplex), 200 Mbps (Full Duplex)<br>Gigabit Ethernet: 2000 Mbps (Full Duplex)                                                                                                                                                                                                                                                                               |
| Network Media (Cable)           | 10Base-T: UTP category 3, 4, 5 cable (maximum 100 m)<br>EIA/TIA-568 100 $\Omega$ STP (maximum 100 m)<br>100Base-TX: UTP category 5, 5e cable (maximum 100 m)<br>EIA/TIA-568 100 $\Omega$ STP (maximum 100 m)<br>100BASE-FX/LX10/BX10: MMF, SMF (Only for TL-SG1210MPE)<br>1000Base-T: UTP category 5e cable or above (maximum 100 m)<br>EIA/TIA-568 100 $\Omega$ STP (maximum 100 m)<br>1000BASE-SX/LX/LX10/BX10: MMF, SMF (Only for TL-SG1210MPE) |
| Power Supply                    | External Power Adapter<br>Input: 100-240 V AC, 50/60 Hz<br>Output: 53.5 V DC/2.43 A (For TL-SG1210MPE)<br>53.5 V DC/1.31 A (For TL-SG105PE/TL-SG108PE)<br>53.5 V DC/2.43 A (For TL-SG105MPE)                                                                                                                                                                                                                                                       |
| PoE Budget                      | TL-SG105PE: 65 W<br>TL-SG105MPE: 120W<br>TL-SG108PE: 64 W<br>TL-SG1210MPE: 123W                                                                                                                                                                                                                                                                                                                                                                    |
| Switching Capacity              | TL-SG105PE/TL-SG105MPE: 10 Gbps<br>TL-SG108PE: 16 Gbps<br>TL-SG1210MPE: 20 Gbps                                                                                                                                                                                                                                                                                                                                                                    |
| MAC Address Table               | TL-SG105PE/TL-SG105MPE:<br>2K, automatically learning, automatically aging<br>TL-SG108PE/TL-SG1210MPE:<br>4K, automatically learning, automatically aging                                                                                                                                                                                                                                                                                          |
| Wall Mountable                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Distance Between Mounting Holes | TL-SG105PE/TL-SG105MPE: 39 mm<br>TL-SG108PE: 94 mm<br>TL-SG1210MPE: 150 mm                                                                                                                                                                                                                                                                                                                                                                         |

# Frequently Asked Questions (FAQ)

## Q1. Why is the Power LED not lit?

The Power LED should be lit when the power system is working normally. If the Power LED is not lit, please try the following:

- A1: Make sure the power adapter is connected to the switch with power source properly.
- A2: Make sure the voltage of the power supply meets the requirements of the input voltage of the switch.
- A3: Make sure the power source is ON.
- A4: On the LED On/Off configuration page, check whether the LED status is on. By default, the LED status is on.

## Q2. Why is the Link/Act LED not lit while a device is connected to the corresponding port?

Please try the following:

- A1: Make sure that the cable connectors are firmly plugged into the switch and the device.
- A2: Make sure the connected device is turned on and works normally.
- A3: The cable must be less than 100 meters long (328 feet). If Extend Mode is enabled, it should be less than 250 meters (820 feet).
- A4: On the LED On/Off configuration page, check whether the LED status is on. By default, the LED status is on.

## Q3. Why is PoE/PoE+ Port not supplying power for PoE devices?

When the total power consumption of connected PoE devices exceeds the maximum, the PoE port with a smaller port number has higher priority. The system will cut off power to the ports with larger port numbers to ensure supplying to other ports. Take TL-SG108PE as an example. Port 1, 2 and 4 are consuming 15.4 W respectively. If an additional PoE device with 18 W is inserted to port 3, the system will cut off the power of port 4 to compensate for the overload.

 To ask questions, find answers, and communicate with TP-Link users or engineers, please visit <https://community.tp-link.com/business> to join TP-Link Community.

 For technical support and other information, please visit <https://www.tp-link.com/support/?type=smb>, or simply scan the QR code.



### EU declaration of conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2011/65/EU and (EU)2015/863.  
The original EU declaration of conformity may be found at <https://www.tp-link.com/en/support/ce/>

### UK declaration of conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Electromagnetic Compatibility Regulations 2016 and Electrical Equipment (Safety) Regulations 2016.  
The original UK declaration of conformity may be found at <https://www.tp-link.com/support/ukca/>

### Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Place the device with its bottom surface downward.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Adapter shall be installed near the equipment and shall be easily accessible.
- The plug on the power supply cord is used as the disconnect device, the socket-outlet shall be easily accessible.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.