

Installation Guide

8-Port Gigabit Managed Reverse PoE Switch

Power

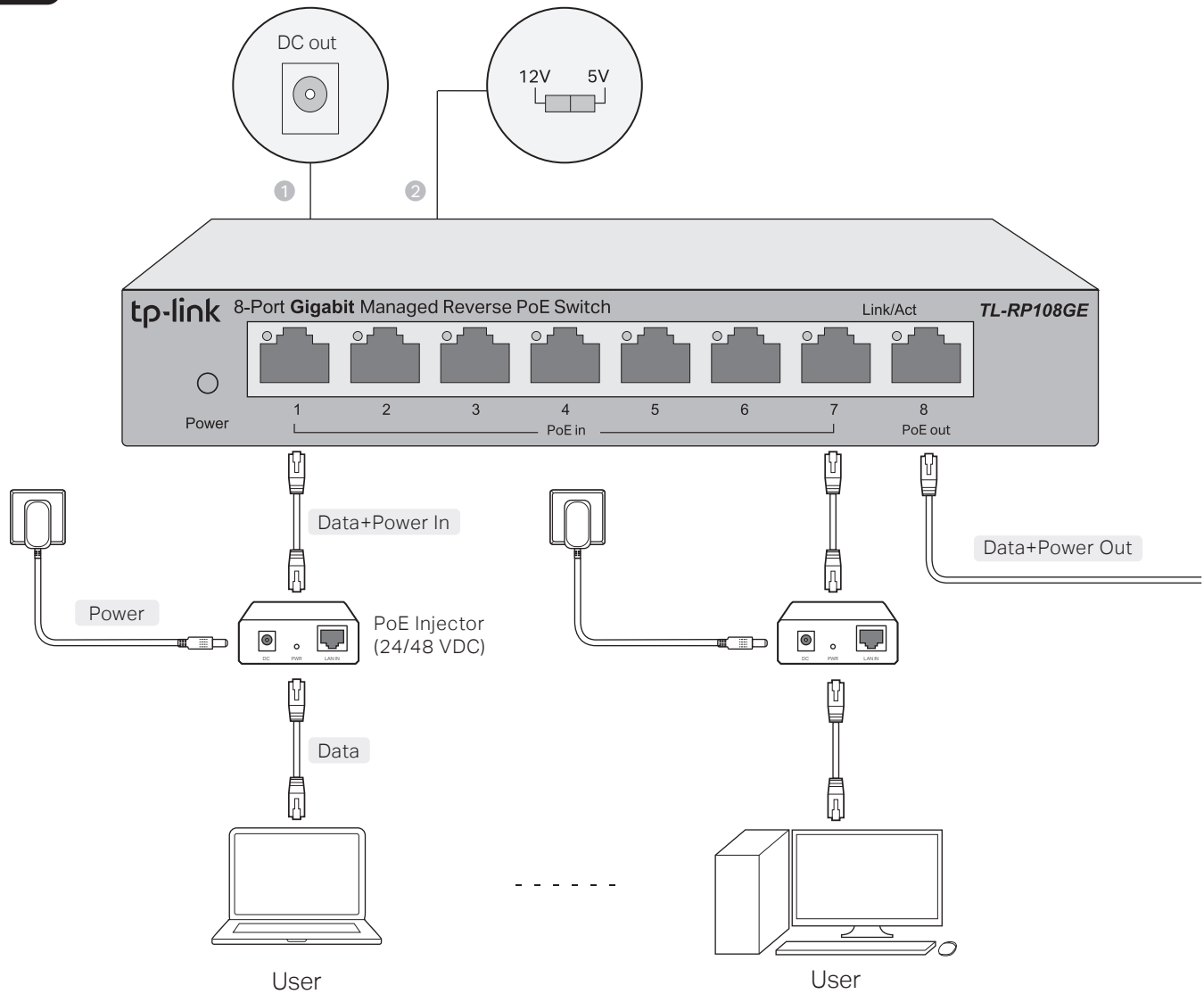
- On:** Power on
- Off:** Power off or abnormal power supply

Link/Act

- Link/Act (Green)**
- On:** Running at 10/100/1000 Mbps
- Off:** No device is linked to the corresponding port
- Flashing:** Transmitting or receiving data

Package Content: the Reverse PoE Switch, Installation Guide, DC Power Cable (0.3 m)

Connection



- Note:
- DC out is a power output port. Do not connect it to any power source.
 - Set the required voltage of the powered device before 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

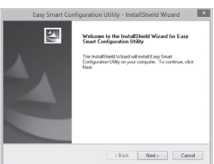




- Find out the IP address of the switch.
 - By default, the switch receives an IP address from a DHCP server (or a router that functions as a DHCP server) in your network. You can find out this IP address on the DHCP server.
 - If the switch cannot receive an IP address from a DHCP server, it uses the 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: 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 | IEEE802.3ab, IEEE802.3i, IEEE802.1p IEEE802.1q, IEEE802.3x, IEEE802.3u |
| Protocol | CSMA/CD |
| Data Transfer Rate | Ethernet: 10 Mbps (Half Duplex), 20 Mbps (Full Duplex) Fast Ethernet: 100 Mbps (Half Duplex), 200 Mbps (Full Duplex) Gigabit Ethernet: 2000 Mbps (Full Duplex) |
| Network Media (Cable) | 10Base-T: UTP category 3, 4, 5 cable (maximum 100 m) EIA/TIA-568 100 Ω STP (maximum 100 m) 100Base-TX: UTP category 5, 5e cable (maximum 100 m) EIA/TIA-568 100 Ω STP (maximum 100 m) 1000Base-T: UTP category 5e cable (maximum 100 m) EIA/TIA-568 100 Ω STP (maximum 100 m) |
| Interface | 7 Passive PoE-in RJ45 Ports: 10/100/1000Mbps Auto-Negotiation Voltage: 24/48 V (mixture is not supported) Power pin of Ethernet cable: 4/5+ 7/8- 1 Passive PoE-out RJ45 Port: 10/100/1000Mbps Auto-Negotiation Voltage: depending on the input voltage of PoE-in ports Power pin of Ethernet cable: 4/5+ 7/8- 1 DC Output Port: Voltage: 5/12 V |
| LED indicators | Power, Link/Act LED |
| Transfer Method | Store-and-Forward |
| MAC Address Learning | Automatically Learning, Automatically Aging |
| Frame Forward Rate | 10Base-T: 14881 pps/Port 100Base-TX: 148810 pps/Port 1000Base-T: 1488095 pps/Port |
| Wall Mountable | Yes |
| Distance Between Mounting Holes | 65 mm |

Environmental and Physical Specifications

| | |
|-----------------------|------------------------------------|
| Operating Temperature | 0 °C to 40 °C (32 °F to 104 °F) |
| Storage Temperature | -40 °C to 70 °C (-40 °F to 158 °F) |
| Operating Humidity | 10% RH to 90% RH non-condensing |
| Storage Humidity | 5% RH to 90% RH non-condensing |

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.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

Frequently Asked Questions (FAQ)

Q1. Why is the Power LED not lit?

By default, 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 source is ON, and PoE-in ports are connected to power sourcing devices.
- A2:** Make sure the voltage of the power supply meets the requirements of the input voltage of the switch (specific range refers to Disclaimer No.3).
- A3:** Make sure the electric current of DC out/port 8 is within the proper range (specific range refers to Disclaimer No. 4).

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). The actual distance varies under different voltage and electric current. When higher electric current is in need, the transmission distance is shorter.

Disclaimer

1. When the reverse switch functions, do not use the alternation switch to change output voltage of the DC output port, and do not plug in or plug out cables connected to port 1–8.
2. It is recommended to use PoE injectors with overcurrent protection.
3. The input voltage of PoE-in ports should be higher than 18 V and lower than 51 V.
4. When the input voltage of port 1–7 is 24 V (±5%), the total output power should be ≤10 W, the maximum output current of DC out is 1.2 A/5 V and 0.8 A/12 V. When the input voltage of port 1–7 is 48 V (±5%), the total output power should be ≤26 W, the maximum output current of DC out is 0.9 A/5 V and 1.0 A/12 V.
5. The device connected to port 8 should support passive PoE, otherwise, the impedance between pair 4&5 and pair 7&8 should be higher than 1 MΩ.



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



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



If you have any suggestions or needs on the product guides, welcome to email techwriter@tp-link.com.cn.



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, 2009/125/EC, 2011/65/EU and (EU)2015/863.

The original EU declaration of conformity may be found at <https://www.tp-link.com/en/ce>.

