Installation Guide

Desktop PoE+ Switch

LiteWave LS106P/LS110P/LS1210P

LED Explanation

Power

On: Power on

Off: Power off

PoE

On: Providing PoE power

Flashing: Current-overload/Short-circuit

Off: No powered devices or not providing PoE power

Link/Act; Uplink (LS110P)

On:
Running at 10/100 Mbps, but no activity.

Flashing:
Running at 10/100 Mbps and transmitting or receiving data.

Off:
No device is linked to the corresponding port.

Uplink (LS1210P)

On:
Running at 10/100/1000 Mbps, but no activity.

Flashing:
Running at 10/100/1000 Mbps and transmitting or receiving data.

Off:
No device is linked to the corresponding port.

Switches Explanation

Note: The numbers in brackets indicate the ports where the feature takes effect. For example, when Extend (Port 1-4) is toggled to On, the Extend mode will be enabled for ports 1-4.

Recovery

Off: The PoE Auto Recovery function is disabled.

On: The switch will constantly detect the working status of a PoE powered device (PD). When the switch finds that the PD works abnormally, the switch will reboot it.

Isolation

Off: Ports can transmit data with each other.

On: The corresponding ports cannot transmit data with other downlink ports. They can transmit data only with the uplink port.

Extend

Off: The corresponding ports run at 10/100 Mbps and support PoE power supply up to 100 m away.

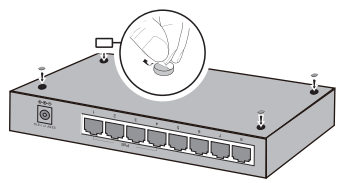
On: The corresponding ports run at 10 Mbps and support PoE power supply up to 250 m away.

Installation

Note: The images in this guide are for demonstration only and may differ from your actual product.

Desktop:

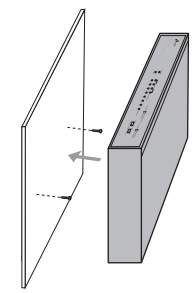
Attach the supplied feet to the bottom of the switch to prevent it from slipping when placed on a desktop.



Wall-mounting:

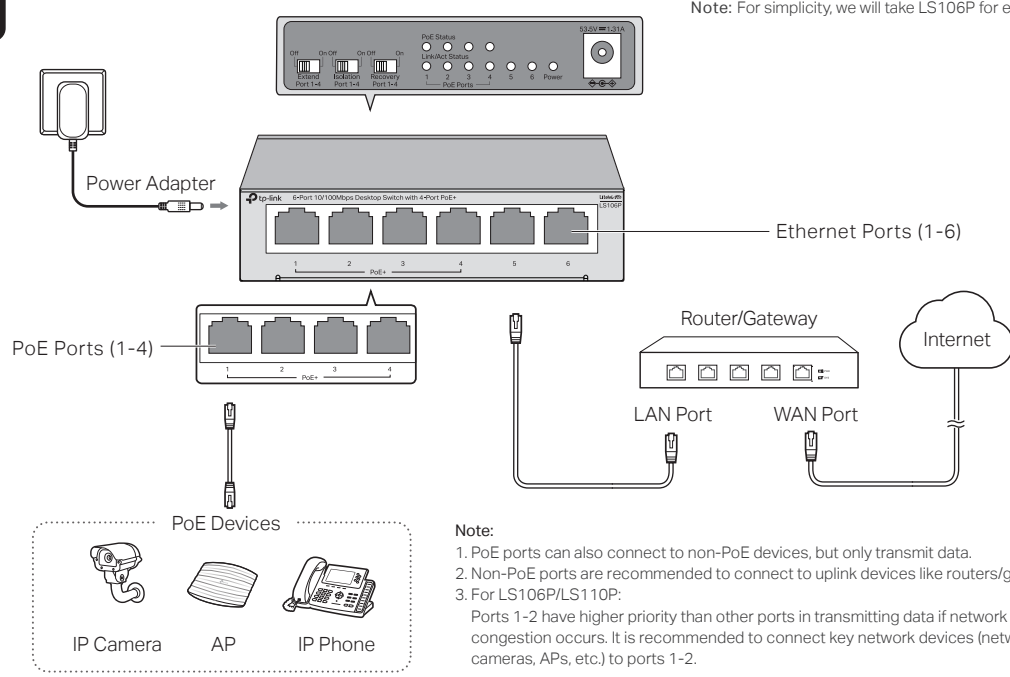
Drill two holes on the wall according to the mounting holes on the bottom of the switch, then secure the switch to the wall with two suitable screws (not provided).

Note: For detailed information, please refer to the Wall Mounting Guide on the device's support page.



Connection

Note: For simplicity, we will take LS106P for example.



Note:

1. PoE ports can also connect to non-PoE devices, but only transmit data.
2. Non-PoE ports are recommended to connect to uplink devices like routers/gateways.
3. For LS106P/LS110P:
   Ports 1-2 have higher priority than other ports in transmitting data if network congestion occurs. It is recommended to connect key network devices (network cameras, APs, etc.) to ports 1-2.

Specifications

General Specifications

Standard	IEEE802.3i, IEEE802.3u, IEEE802.3x, IEEE802.3ab (For LS1210P), IEEE802.3af, IEEE802.3at
Interface	LS106P: 6 10/100 Mbps RJ45 Ports Auto-Negotiation MDI/MDIX PoE Ports: Port 1–4 Priority Ports: Port 1-2 LS110P: 10 10/100 Mbps RJ45 Ports Auto-Negotiation MDI/MDIX PoE Ports: Port 1–8 Priority Ports: Port 1-2 LS1210P: 8 10/100 Mbps + 2 10/100/1000 Mbps RJ45 Ports Auto-Negotiation MDI/MDIX PoE Ports: Port 1–8
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable (maximum 100 m); EIA/TIA-568 100Ω STP (maximum 100 m) 100BASE-TX: UTP category 5, 5e cable (maximum 100 m); EIA/TIA-568 100Ω STP (maximum 100 m) LS1210P: 1000BASE-T: UTP category 5e cable or above (maximum 100 m); EIA/TIA-568 100Ω STP (maximum 100 m)
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Power Supply	External Power Adapter Input: 220-240 VAC, 50/60 Hz Output: LS106P: 53.5 VDC/1.31 A LS110P/LS1210P: 53.5 VDC/1.92 A
PoE Budget	LS106P: 65 W (up to 30 W for each PoE port) LS110P/LS1210P: 96 W (up to 30 W for each PoE port)
Wall Mountable	Yes
Distance Between Mounting Holes	LS106P: 39 mm LS110P: 105 mm LS1210P: 105 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% to 90%RH non-condensing
Storage Humidity	5% to 90%RH non-condensing

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 check as follows:

A1: Make sure the AC power cord/power adapter is connected 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.

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

It is recommended that you check the following items:

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 working well.

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).

Q3. Why are PoE ports 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 a higher priority. The system will cut off power to the ports with larger port numbers to ensure supplying to other ports.

Take LS106P as an example. If port 1, 2 and 4 are consuming 15 W respectively, and an additional PoE device with 25 W is inserted to port 3, the system will cut off the power of port 4 to compensate for the overload.

Q4. What should I notice before using the PoE Auto Recovery feature?

A1: Before upgrading a connected PoE powered device (PD), disable PoE Auto Recovery to avoid the PD's damage.

A2: When a PD does not send data packets to the switch for a long period in certain scenarios (e.g. an IPC in sleep mode), disable PoE Auto Recovery to avoid the PD repeatedly rebooting.

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.

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.