

Installation Guide

Unmanaged Desktop PoE+ Switch

LED Explanation

Power

On: Power on
Off: Power off

PoE Status

On: Providing PoE power
Flashing: Current-overload/ Short-circuit
Off: Not providing PoE power

Link/Act

On: Link present but no activity
Flashing: Transmitting/receiving data
Off: No link

PoE MAX

DS106P
Off: Total power supply < 60 W
On: 60 W ≤ Total power supply < 67 W
Flashing: Total power supply ≥ 67 W

DS111P
Off: Total power supply < 58 W
On: 58 W ≤ Total power supply < 65 W
Flashing: Total power supply ≥ 65 W

Switches Explanation

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

Extend (For DS106P/DS111P)

Off: Ports run at 10/100 Mbps and support PoE power supply up to 100 m away.
On: Ports run at 10 Mbps and support PoE power supply up to 250 m away.

Priority (For DS106P)

Off: All the ports transmit data with the same priority.
On: The specific ports transmit data with a higher priority than other ports. When congestion occurs, packets which are transmitted by the ports with higher priority occupy the whole bandwidth.

Recovery (For DS106P/DS111P)

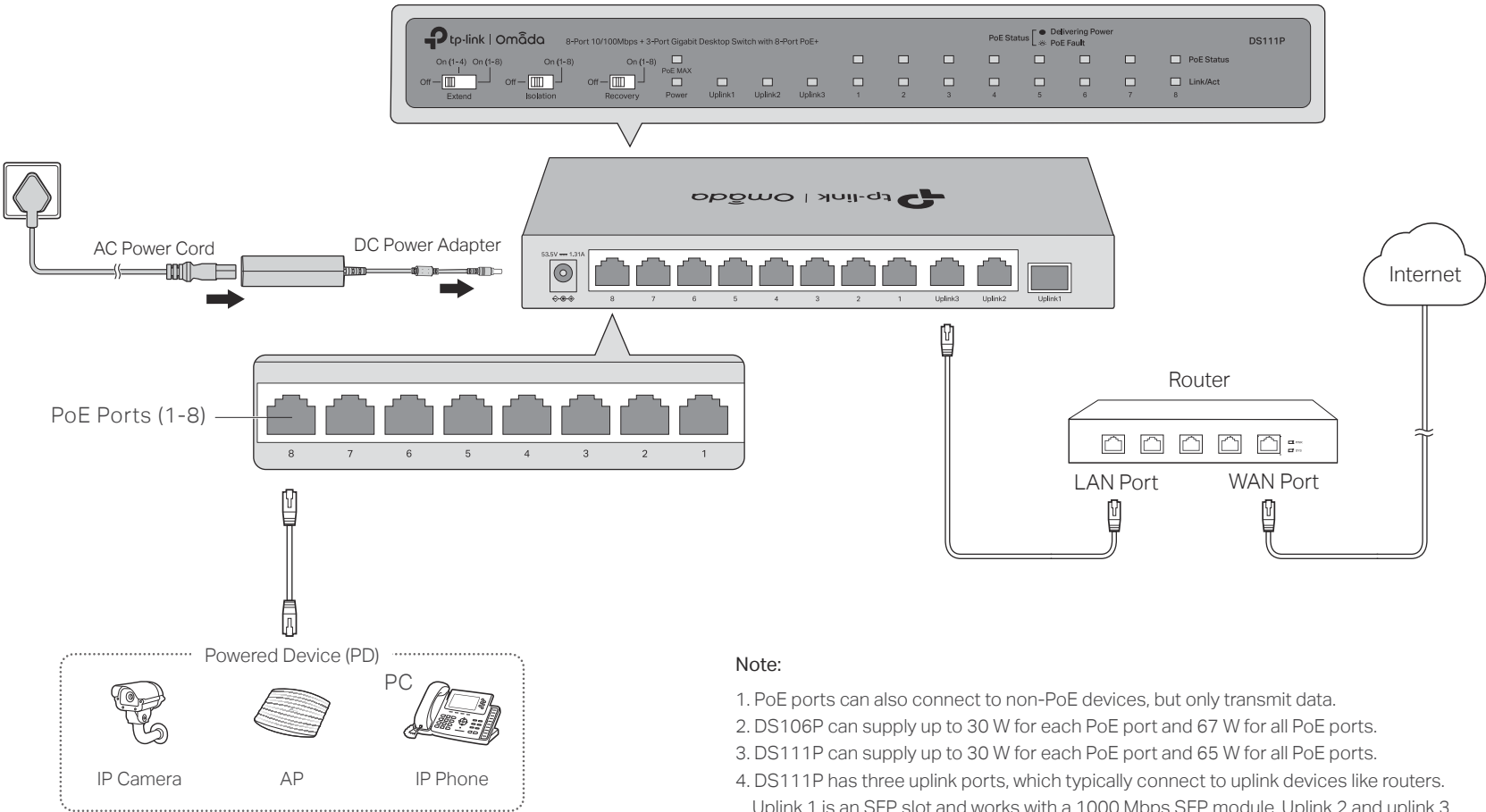
Off: The PoE Auto Recovery function is disabled.
On: The switch will constantly detect the working status of a PoE powered device (PD). When the switch finds that the PD works abnormally, the switch will reboot it.

Isolation (For DS111P)

Off: Ports can transmit data with each other.
On: Specific ports cannot transmit data with other downlink ports. They can transmit data only with the uplink ports.

Note: Images may differ from your actual product. For simplicity, we will take DS111P for example throughout the Guide.

Connection



Specifications

General Specifications

Standard	IEEE 802.3i, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af, IEEE802.3at, IEEE802.3ab (Only for DS111P), IEEE802.3z (Only for DS111P)
Protocol	CSMA/CD
Interface	DS106P: 6 10/100 Mbps RJ45 Ports, Auto-Negotiation MDI/MDIX PoE Ports: Port 1-Port 4 DS111P: 8 10/100 Mbps RJ45 Ports Auto-Negotiation/Auto MDI/MDIX 2 10/100/1000 Mbps RJ45 Ports Auto-Negotiation/Auto MDI/MDIX 1 1000 Mbps SFP slot 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) 1000BASE-T (Only for DS111P): UPT category 5e cable or above (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100 m) 1000BASE-SX/LX/LX10/BX10 (Only for DS111P): MMF, SMF
Switching Capacity	DS106P: 1.2 Gbps DS111P: 7.6 Gbps
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Power Supply	External Power Adapter Input: 100-240 VAC, 50/60 Hz Output: 53.5 VDC/1.31 A
PoE Budget	DS106P: 67 W (up to 30 W for each PoE port) DS111P: 65 W (up to 30 W for each PoE port)
Wall Mountable	Yes
Distance Between Mounting Holes	DS106P: 94 mm DS111P: 150 mm

Environmental and Physical Specifications

Certification	FCC, CE, RoHS
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% non-condensing
Storage Humidity	5% to 90% non-condensing

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/>



Frequently Asked Questions (FAQ)

Q1. The Power LED is 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 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. The Link/Act LED is 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 DS111P as an example. If port 1, 2 and 4 are consuming 18 W respectively, and an additional PoE device with 15 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.



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



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.
- Plug the product into the wall outlets with earthing connection through the power supply cord.
- The PoE ports shall not be used to charge lithium batteries or devices supplied by lithium batteries.
- The plug on the power supply cord is used as the disconnect device, the socket-outlet shall be easily accessible.