![Omada by tp-link]

Installation Guide

Unmanaged Desktop PoE+ Switch

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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.
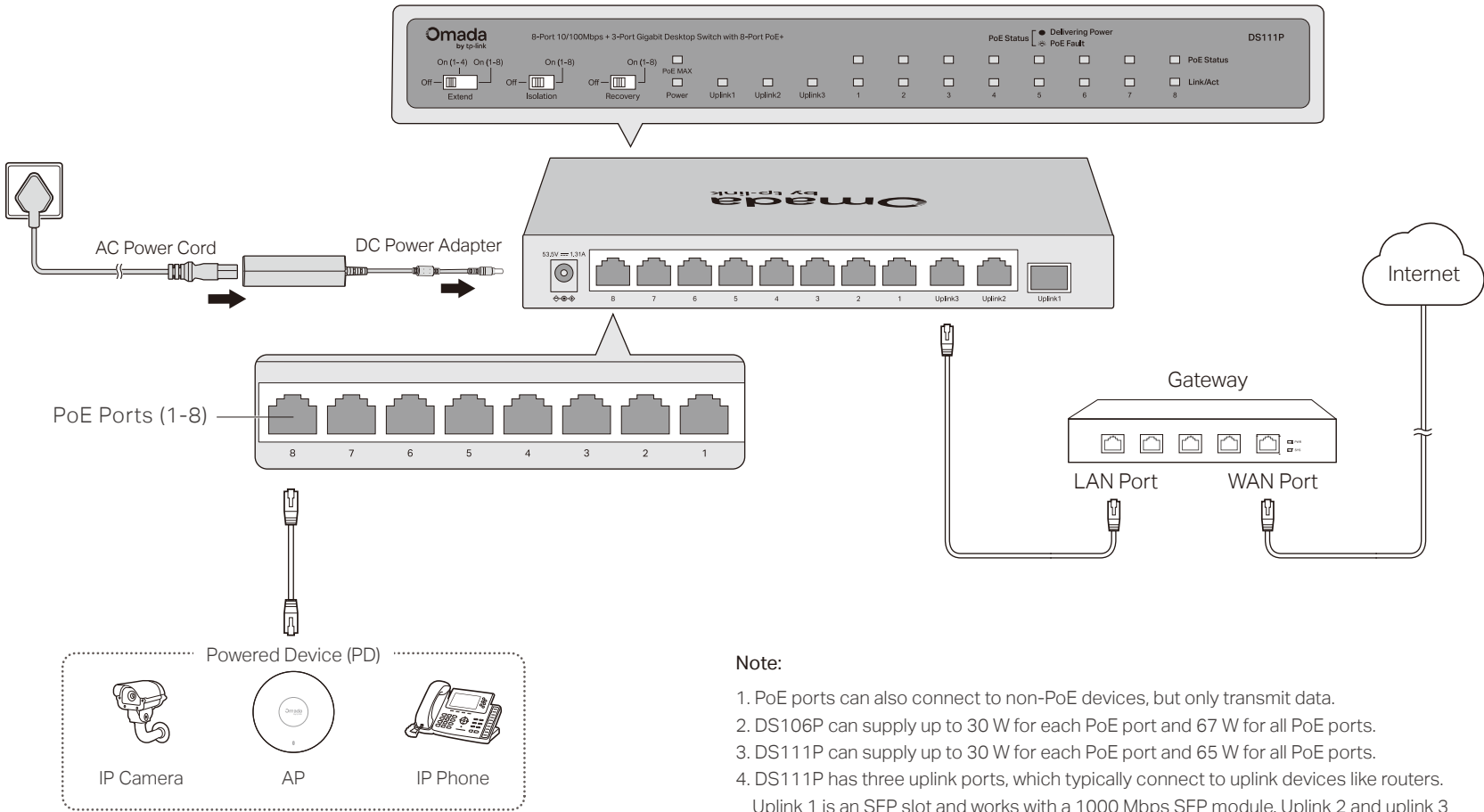
Recovery (For DS106P/DS111P)

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: Specfic 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

PoE Ports (1-8)

Powered Device (PD)
IP Camera   AP   IP Phone

AC Power Cord   DC Power Adapter

Internet

Gateway
LAN Port   WAN Port

Note:
1. PoE ports can also connect to non-PoE devices, but only transmit data.
2. DS106P can supply up to 30 W for each PoE port and 67 W for all PoE ports.
3. DS111P can supply up to 30 W for each PoE port and 65 W for all PoE ports.
4. DS111P has three uplink ports, which typically connect to uplink devices like routers. Uplink 1 is an SFP slot and works with a 1000 Mbps SFP module. Uplink 2 and uplink 3 are RJ45 ports.

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

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

環境和物理規格

運作溫度	0°C - 40°C (32°F - 104°F)
存放溫度	-40°C - 70°C (-40°F - 158°F)
運作濕度	10% - 90% RH 無凝結
存放濕度	5% - 90% RH 無凝結

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.

For technical support, replacement services, user guides, and more, please visit https://support.omadanetworks.com/, or simply scan the QR code.

FCC STATEMENT

Product Name: 8-Port 10/100Mbps + 3-Port Gigabit Desktop Switch with 8-Port PoE+
Model Number: DS111P
Product Name: 6-Port 10/100Mbps Desktop Switch with 4-Port PoE+
Model Number: DS106P

Component Name	Model
Power Adapter	T535131-2-DT

Responsible party:
TP-Link Systems Inc.
Address: 10 Mauchly, Irvine, CA 92618
Website: https://www.tp-link.com/us/
Tel: +1 626 333 0234
Fax: +1 909 527 6804
E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.

2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product Name: Power Adapter
Model Number: T535131-2-DT

Responsible party:
TP-Link Systems Inc.
Address: 10 Mauchly, Irvine, CA 92618
Website: https://www.tp-link.com/us/
Tel: +1 626 333 0234
Fax: +1 909 527 6804
E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.

2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

We, TP-Link Systems Inc., has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2025-05-07

Industry Canada Statement

CAN ICES-003 (A)/NMB-003(A)

CE Mark Warning

This is a class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。
VCCI-A

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BSMI Notice

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先切斷電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮,請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用,以確保本產品的操作可靠並防止過熱,請勿堵塞或覆蓋開口。
- 請勿將本產品置於靠近熱源的地方,除非有正常的通風,否則不可放在密閉位置中。
- 請不要私自拆開機殼或自行維修,如產品有故障請與原廠或代理商聯繫。
- 警告:為避免電磁干擾,本產品不應安裝或使用於住宅環境。

限用物質含有情況標示聲明書

	限用物質及其化學符號					
產品元件名稱	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr⁺⁶	多溴聯苯 PBB	多溴二苯醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應器	-	○	○	○	○	○
其他及其配件	-	○	○	○	○	○

備考1. "○" 系指該限用物質未超出百分比含量基準值。
備考2. "-" 系指該限用物質為排除項目。

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.

Wall Mounting Requirements

To mount the device on a wall, use 2 screws which complies with ANSI B1.1 4#, (5#), 6# standard and are more than 8.5 mm in length. When the screws are fixed on the wall, the distance between the screw head and the wall should be more than 1.5 mm.

牆面安裝要求

將設備安裝到牆上,需使用 2 顆符合 ANSI B1.1 4#、(5#)、6# 標準、長度大於 8.5mm 的螺絲,螺絲固定在牆上時,螺絲頭與牆面的距離應大於 1.5mm。

Explanation of the symbols on the product label

產品標籤上符號的解釋

Note: The product label can be found at the bottom of the product.
Symbols may vary from products.

注意: 產品標籤可在產品底部找到。符號可能因產品而異。

Symbol 符號	Explanation 說明
▢	Class II equipment 二級設備
⊕	Class II equipment with functional earthing 具有接地功能的二級設備
∼	Alternating current 交流電
---	Direct current DC 電壓
◇◆◇◆	Polarity of DC power connector 輸出端點的極性
⌂	For indoor use only 僅供室內使用
⚡	Dangerous voltage 危險電壓
⚠	Caution, risk of electric shock 請注意,有觸電危險
(VI)	Energy efficiency marking 能源效率標誌
⏚	Protective earthng 保護接地
⏚	Earth 接地
⏚	Frame or chassis 框架或外殼
⏚	Functional earthing 功能接地
⚠	Caution, hot surface 請注意,表面過熱
⚠	Caution 警告
📖	Operator's manual 操作手冊
⏻	Stand-by 待機
⏼	"ON"/"OFF" (push-push) "開啟" / "關閉"（按壓式）
⊏⊐	Fuse 保險絲
⊏⊐ N	Fuse is used in neutral N 保險絲用於中性線 N
♻	RECYCLING 回收 This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. Users have the choice to give their product to a competent recycling organization or to the retailer when they buy new electrical or electronic equipment. 這個產品帶有歐盟指令 2012/19/EU 中關於廢棄電氣電子設備（WEEE）的選擇性分類標誌。這意味這,就產品必須按照該指令處理,以便進行回收或拆解,從而最大限度地減少對環境的影響。 用戶可以選擇將產品交給有資格的回收機構,或在購買新的電器或電子設備時將其交給零售商進行回收。
🔊	Caution, avoid listening at high volume levels for long periods 請小心,避免長時間以高音量收聽。
🔌	Disconnection, all power plugs 斷線,所有電源插頭
m	Switch of mini-gap construction 迷你間隙結構開關
μ	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US) 小間隙結構開關（US 版本） 小間隙 / 小斷開結構的開關（非 US 版）
ε	Switch without contact gap (Semiconductor switching device) 無接觸間隙的開關（半導體開關設備）