tp-link

Installation Guide
Unmanaged Desktop PoE Switch

LED Explanation

Power
On: Power on
Off: Power off

PoE Status
Port 1–4 (for TL-SF1008LP/TL-SF1008P)/
Port 1–8 (for TL-SF1009P/TL-SL1210MP)
On: PoE power provided
Flashing: Current-overload/ Short-circuit
Off: No PoE power provided

Link/Act
Port 1–8/Port 1–9 (for TL-SF1009P)/
Uplink 1, Uplink2 (for TL-SL1210MP)
On: Link present but no activity
Flashing: Transmitting/receiving data
Off: No link

PoE MAX

TL-SF1008LP
On: 34 W ≤ Total power supply < 41 W
Flashing: Total power supply = 41 W
Off: Total power supply < 34 W

TL-SF1008P
On: 59 W ≤ Total power supply < 66 W
Flashing: Total power supply = 66 W
Off: Total power supply < 59 W

TL-SF1009P
On: 58 W ≤ Total power supply < 65 W
Flashing: Total power supply = 65 W
Off: Total power supply < 58 W

TL-SL1210MP
On: 117 W ≤ Total power supply < 124 W
Flashing: Total power supply = 124 W
Off: Total power supply < 117 W

Switches Explanation

Extend (1–4) (for TL-SF1008LP/TL-SF1008P)
Off: Port 1–4 run at 10/100 Mbps and support PoE power supply up to 100 m away.
On: Port 1–4 run at 10 Mbps and support PoE power supply up to 250 m away.
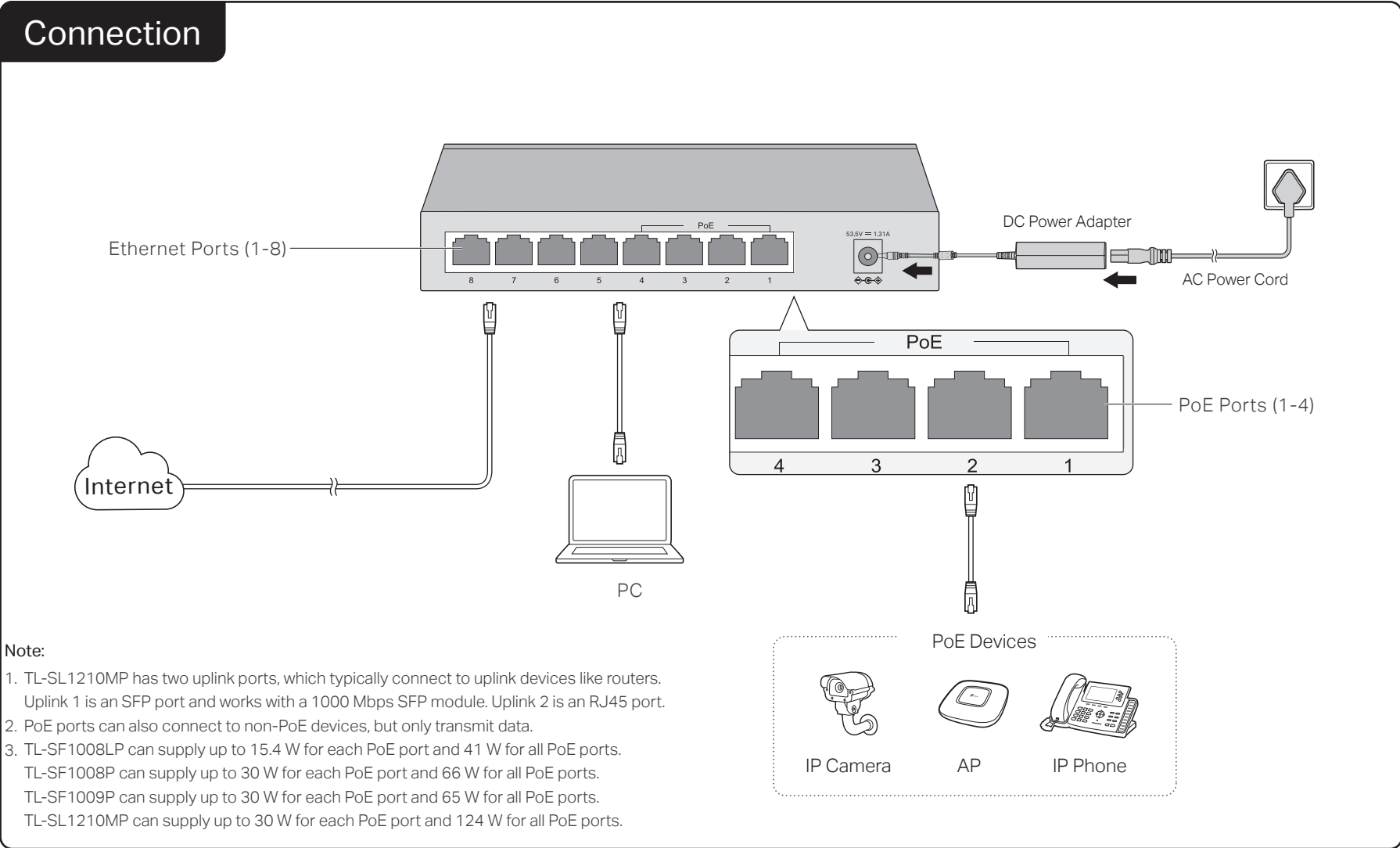
Extend (for TL-SF1009P and TL-SL1210MP)
Off: Port 1–8 run at 10/100 Mbps and support PoE power supply up to 100 m away.
On (1-4): Port 1–4 run at 10 Mbps and support PoE power supply up to 250 m away.
On (1-8): Port 1–8 run at 10 Mbps and support PoE power supply up to 250 m away.

Priority (1–2)/Priority (except TL-SL1210MP)
Off: All the ports transmit data with the same priority.
On/On (1-2): Port 1–2 transmit data with a higher priority than other ports.

Isolation (for TL-SF1009P and TL-SL1210MP)
Off: Port 1–8 can transmit data with every port.
On (1-8): Port 1–8 cannot transmit data with each other. They can transmit data only with the uplink port.

Note: For simplicity, we will take TL-SF1008P for example throughout the Guide.

Connection

Ethernet Ports (1-8)
53.5V ⎓ 1.31A
DC Power Adapter
AC Power Cord
Internet
PC
PoE Ports (1-4)
PoE Devices
IP Camera — AP — IP Phone

Note:
1. TL-SL1210MP has two uplink ports, which typically connect to uplink devices like routers. Uplink 1 is an SFP port and works with a 1000 Mbps SFP module. Uplink 2 is an RJ45 port.
2. PoE ports can also connect to non-PoE devices, but only transmit data.
3. TL-SF1008LP can supply up to 15.4 W for each PoE port and 41 W for all PoE ports.
   TL-SF1008P can supply up to 30 W for each PoE port and 66 W for all PoE ports.
   TL-SF1009P can supply up to 30 W for each PoE port and 65 W for all PoE ports.
   TL-SL1210MP can supply up to 30 W for each PoE port and 124 W for all PoE ports.

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 TL-SF1008P as an example. If port 1, 2 and 4 are consuming 15.4 W respectively, and an additional PoE device with 20 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** to join TP-Link Community.

For technical support 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**.

Specifications

General Specifications

Standard	IEEE 802.3i, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af, IEEE802.3at (Except TL-SF1008LP) IEEE 802.3ab (Only for TL-SL1210MP) IEEE 802.3z (Only for TL-SL1210MP)
Protocol	CSMA/CD
Interface	TL-SF1008LP/TL-SF1008P: 8 10/100 Mbps RJ45 Ports Auto-Negotiation/Auto MDI/MDIX PoE Ports: Port 1–4 TL-SF1009P: 9 10/100 Mbps RJ45 Ports Auto-Negotiation/Auto MDI/MDIX PoE Ports: Port 1–8 TL-SL1210MP: 8 10/100 Mbps RJ45 Ports Auto-Negotiation/Auto MDI/MDIX 1 10/100/1000 Mbps RJ45 Port 1 1000 Mpbs SFP Port 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 TL-SL1210MP): UPT category 5e cable or above (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100 m) 1000BASE-SX/LX/LX10/BX10 (Only for TL-SL1210MP): MMF, SMF
Switching Capacity	TL-SF1008LP/TL-SF1008P: 1.6 Gbps TL-SF1009P: 1.8 Gbps TL-SL1210MP: 5.6 Gbps
MAC Address Table	2K
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: TL-SF1008LP: 53.5 VDC/0.81 A TL-SF1008P/TL-SF1009P: 53.5 VDC/1.31 A TL-SL1210MP: 53.5 VDC/2.43 A
Wall Mountable	Yes
Distance Between Mounting Holes	TL-SF1008LP/TL-SF1008P/TL-SF1009P: 105 mm TL-SL1210MP: 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

PoE Disclaimer

The speed of the ports in extend mode will downgrade to 10 Mbps. The actual transmission distance may vary due to power consumption of PoE-powered devices or the cable quality and type.
PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

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.

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.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Place the device with its bottom surface downward.