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# Installation Guide

16-Port 10/100Mbps + 2-Port Gigabit Unmanaged PoE Switch

TL-SL1218MP



# About this Installation Guide

This Installation Guide describes the hardware characteristics, installation methods and the points that should be attended to during installation. This Installation Guide is structured as follows:

## Chapter 1 Introduction

This chapter describes the external components of the switch.

## Chapter 2 Installation

This chapter illustrates how to install the switch.

## Chapter 3 Connection

This chapter illustrates how to do the physical connection of the switch.

## Appendix A Troubleshooting

## Appendix B Hardware Specifications

# Audience



This Installation Guide is for:

Network Engineer

Network Administrator

# Conventions

- Some models featured in this guide may be unavailable in your country or region. For local sales information, visit <https://www.tp-link.com>.
- The figures in Chapter 2 to Chapter 3 are for demonstration purposes only. Your switch may differ in appearance from that depicted.
- This Guide uses the specific formats to highlight special messages. The following table lists the notice icons that are used throughout this guide.

	Remind to be careful. A caution indicates a potential which may result in device damage.
	Remind to take notice. The note contains the helpful information for a better use of the product.

# Related Document

This Installation Guide is also available in PDF on our website. To obtain the latest documentation and product information, please visit the official website:

<https://www.tp-link.com>

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# Chapter 1 Introduction

## 1.1 Product Overview

TL-SL1218MP is a 16-Port 10/100Mbps + 2-Port Gigabit Unmanaged Switch that requires no configuration. TL-SL1218MP is also a Power Sourcing Equipment (PSE\*). 16 of the RJ45 ports on the switch support Power over Ethernet (PoE\*) function, which can automatically detect and supply power for those powered devices (PDs\*) complying with IEEE 802.3af and IEEE 802.3at.



### Note:

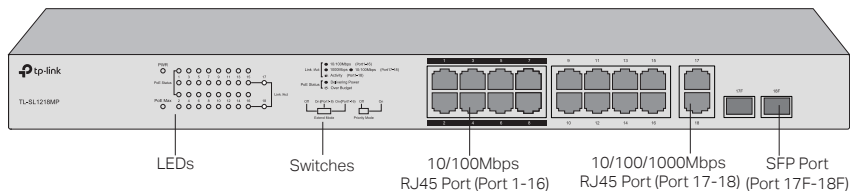
- \*PSE is a device (switch or hub for instance) that will provide power in a PoE setup.
- \*PoE is a technology that describes a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network.
- \*PD is a device powered by a PSE and thus consumes energy. Examples include powering IP telephones, wireless LAN access points, network cameras, network hubs, embedded computers and so on.

## 1.2 Appearance

### Front Panel

The front panel of TL-SL1218MP is shown as the following figure.

Figure 1-1 Front Panel of TL-SL1218MP



### LEDs

LED	Indication
PWR	<p><b>On:</b> The switch is powered on.</p> <p><b>Off:</b> The switch is powered off.</p>

LED	Indication
Link/Act	<p><b>For Port 1-16:</b>  <b>On:</b> Running at 10/100Mbps but no activity.  <b>Flashing:</b> Running at 10/100Mbps and is transmitting or receiving data.  <b>Off:</b> No device is linked to the corresponding port.</p> <p><b>For Port 17/17F-18/18F:</b>  <b>Green On:</b> Running at 1000Mbps but no activity.  <b>Green Flashing:</b> Running at 1000Mbps and is transmitting or receiving data.  <b>Yellow On:</b> Running at 10/100Mbps but no activity.  <b>Yellow Flashing:</b> Running at 10/100Mbps and is transmitting or receiving data.  <b>Off:</b> No device is linked to the corresponding port.</p>
PoE Status	<p><b>On:</b> The port is connecting to a PD and supplying power for it.  <b>Flashing:</b> The PoE power circuit may be in short or the power current may be overloaded.  <b>Off:</b> No PD is connected to the corresponding port, or no power is supplied according to the power limits of the port.</p>
PoE Max	<p><b>On:</b> Total power supply <math>\geq</math> 185W.  <b>Flashing:</b> Total power supply <math>\geq</math> 185W and last for more than 2 minutes.  <b>Off:</b> Total power supply <math>\leq</math> 185W.</p>

## Switches

Switch	Indication
Extend Mode	<p><b>Off:</b> Port 1-16 run at 10/100 Mbps and support PoE power supply up to 100m away.  <b>On (Port1-8):</b> Port 1-8 run at 10 Mbps and support PoE power supply up to 250m away.  <b>On (Port1-16):</b> Port 1-16 run at 10 Mbps and support PoE power supply up to 250m away.</p>
Priority Mode	<p><b>Off:</b> All the ports transmit data in the same priority.  <b>On:</b> Port 1-8 transmit data in a higher priority than Port 9-18. When congestion occurs, packets which are transmitted by the ports with higher priority occupy the whole bandwidth.</p>

### 10/100Mbps RJ45 Port (Port 1-16)

The ports are designed to connect to devices with a bandwidth of 10Mbps or 100Mbps. The ports can provide power and transmit data for PDs. The maximum PoE power is 30W for each PoE port and 192W for all the PoE ports. The ports can also connect to non-PoE devices, but only transmit data.

### 10/100/1000Mbps RJ45 Port (Port 17-18)

The ports are designed to connect to devices with a bandwidth of 10Mbps, 100Mbps or 1000Mbps.

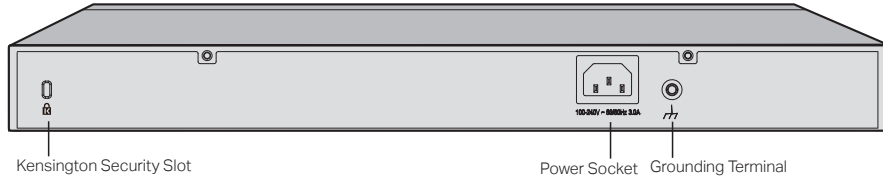
### SFP Port (Port 17F-18F)

The ports are designed to install the SFP module. An SFP Port (Port 17F-18F) and the associated 10/100/1000Mbps RJ45 Port (Port 17-18) are called a "Combo" port, which means they cannot be used simultaneously, otherwise only the SFP port works.

## ■ Rear Panel

The rear panel is shown as the following figure.

Figure 1-2 Rear Panel



### Kensington Security Slot

Secure the lock (not provided) into the security slot to prevent the device from being stolen.

### Power Socket

Connect the female connector of the power cord here, and the male connector to the AC power outlet. Please make sure the voltage of the power supply meets the requirement of the input voltage (100-240V~50/60Hz).



#### Note:

Please use the provided power cord.

### Grounding Terminal

The switch already comes with lightning protection mechanism. You can also ground the switch through the PE (Protecting Earth) cable of AC cord or with Ground Cable. For detailed information, please refer to the **Lightning Protection Guide** from the training center of our website: [https://www.tp-link.com/en/configuration-guides/lightning\\_protection\\_guide/?configurationId=2962](https://www.tp-link.com/en/configuration-guides/lightning_protection_guide/?configurationId=2962)

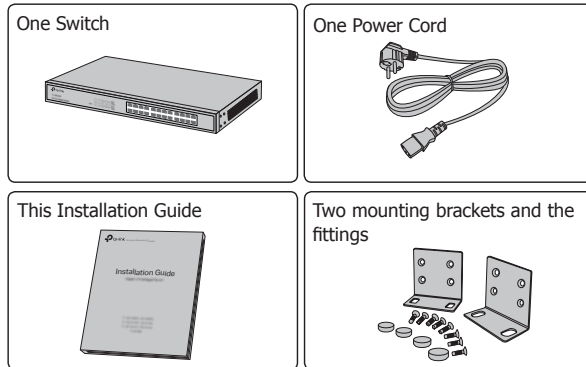
## Chapter 2 Installation

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### 2.1 Package Contents

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Make sure that the package contains the following items. If any of the listed items is damaged or missing, please contact your distributor.



### 2.2 Safety Precautions

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To avoid any device damage and bodily injury caused by improper use, please observe the following rules.

#### ■ Safety Precautions

- Keep the power off during the installation.
- Wear an ESD-preventive wrist strap, and make sure that the wrist strap has a good skin contact and is well grounded.
- Use only the power cord provided with the switch.
- Make sure that the supply voltage matches the specifications indicated on the rear panel of the switch.
- Ensure the vent hole is well ventilated and unblocked.
- Do not open or remove the cover of the switch.
- Before cleaning the device, cut off the power supply. Do not clean it by the waterish cloth, and never use any other liquid cleaning method.
- Place the device with its bottom surface downward.

#### ■ Site Requirements

##### Temperature/Humidity



Please keep a proper temperature and humidity in the equipment room. Too high/low humidity may lead to bad insulation, electricity leakage, mechanical property changes and corrosions. Too high temperature may accelerate aging of the insulation materials and can thus significantly shorten the service life of the device. For normal temperature and humidity of the device, please check the following table.

Environment	Temperature	Humidity
Operating	0°C to 50°C	10% to 90%RH Non-condensing
Storage	-40°C to 70°C	5% to 90%RH Non-condensing

### Clearness



The dust accumulated on the switch can be absorbed by static electricity and result in poor contact of metal contact points. Some measures have been taken for the device to prevent static electricity, but too strong static electricity can cause deadly damage to the electronic elements on the internal circuit board. To avoid the effect of static electricity on the operation of the switch, please attach much importance to the following items:

- Dust the device regularly, and keep the indoor air clean.
- Keep the device well grounded and ensure static electricity has been transferred.

### Electromagnetic Interference



Electronic elements including capacitance and inductance on the device can be affected by external interferences, such as conducted emission by capacitance coupling, inductance coupling, and impedance coupling. To decrease the interferences, please make sure to take the following measures:

- Use the power supply that can effectively filter interference from the power grid.
- Keep the device far from high-frequency, strong-current devices, such as radio transmitting station.
- Use electromagnetic shielding when necessary.

### Lightning Protection



Extremely high voltage currents can be produced instantly when lightning occurs and the air in the electric discharge path can be instantly heated up to 20,000°C. As this instant current is strong enough to damage electronic devices, more effective lightning protection measures should be taken.

- Ensure the rack and device are well earthed.
- Make sure the power socket has a good contact with the ground.

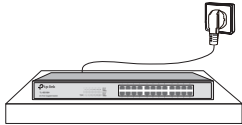
- Keep a reasonable cabling system and avoid induced lightning.
- Use the signal SPD (Surge Protective Device) when wiring outdoor.



**Note:**

For detailed lightning protection measures, please refer to the Lightning Protection Guide from the training center of our website:  
[https://www.tp-link.com/en/configuration-guides/lightning\\_protection\\_guide/?configurationId=2962](https://www.tp-link.com/en/configuration-guides/lightning_protection_guide/?configurationId=2962)

### Installation Site



When installing the device on a rack or a flat workbench, please note the following items:

- The rack or workbench is flat and stable, and sturdy enough to support the weight of 5.5kg at least.
- The rack or workbench has a good ventilation system. The equipment room is well ventilated.
- The rack is well grounded. Keep the power socket less than 1.5 meters away from the device.

## 2.3 Installation Tools

- Phillips screwdriver
- ESD-preventive wrist wrap
- Cables



**Note:**

These tools are not provided with our product. If needed, please self purchase them.

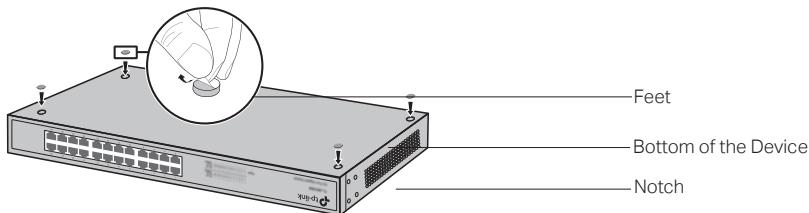
## 2.4 Product Installation

### ■ Desktop Installation

To install the device on the desktop, please follow the steps:

1. Set the device on a flat surface strong enough to support the entire weight of the device with all fittings.
2. Remove the adhesive backing papers from the rubber feet.
3. Turnover the device and attach the supplied rubber feet to the recessed areas on the bottom at each corner of the device.

Figure 2-1 Desktop Installation

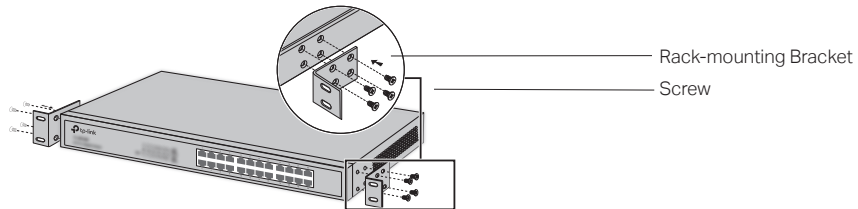


## ■ Rack Installation

To install the device in an EIA standard-sized, 19-inch rack, follow the instructions described below:

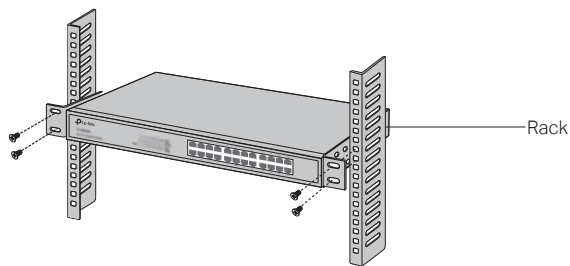
1. Check the grounding and stability of the rack.
2. Secure the supplied rack-mounting brackets to each side of the device with supplied screws, as illustrated in the following figure.

Figure 2-2 Bracket Installation



3. After the brackets are attached to the device, use suitable screws (not provided) to secure the brackets to the rack, as illustrated in the following figure.

Figure 2-3 Rack Installation



### Caution:

- Please set 5 to 10cm gaps around the device for air circulation.
- Please avoid any heavy thing placed on the device.
- Please mount devices in sequence from the bottom to top of the rack and ensure a certain clearance between devices for the purpose of heat dissipation.

## Chapter 3 Connection

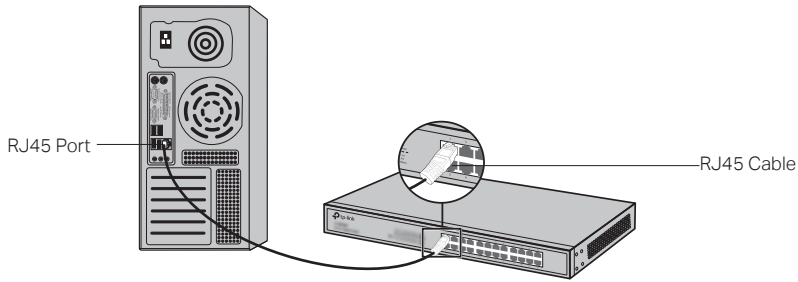
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### 3.1 Ethernet Port

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Connect an Ethernet port of the switch to the computer by RJ45 cable as the following figure shows.

Figure 3-1 Connecting the RJ45 Port

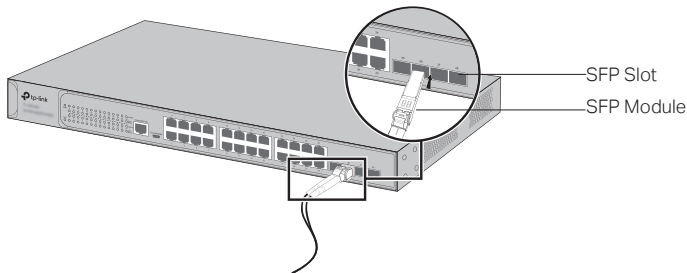


### 3.2 SFP Port

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The following figure demonstrates the connection of SFP port to an SFP module.

Figure 3-2 Inserting the SFP Module



### 3.3 Verify Installation

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After completing the installation, please verify the following items:

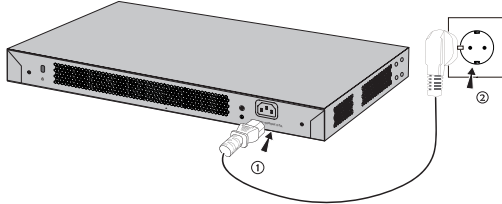
- There are 5 to 10cm of clearance around the sides of the device for ventilation and the air flow is adequate.
- The voltage of the power supply meets the requirement of the input voltage of the device.
- The power socket, device and rack are well grounded.
- The device is correctly connected to other network devices.

### 3.4 Power On

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Plug in the negative connector of the provided power cord into the power socket of the device, and the positive connector into a power outlet as the following figure shows.

Figure 3-3 Connecting to Power Supply

**Note:**

The figure is to illustrate the application and principle. The power plug you get from the package and the socket in your situation will comply with the regulation in your country, so they may differ from the figure above.

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### 3.5 Initialization

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After the device is powered on, it begins the Power-On Self-Test. A series of tests run automatically to ensure the device functions properly. During this time, the LED indicators will respond as follows:

1. The PWR LED indicator will light up and keep on.
2. After the initialization, the Link/Act LED indicator for Port 17/17F-18/18F will first turn green, then turn yellow and finally turn off again.
3. After the initialization, the other LED indicators will flash momentarily and then turn off again.

## Appendix A Troubleshooting

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### Q1. Why is the PWR LED not lit?

The PWR LED should be lit when the power system is working normally. If the PWR LED is not lit, please check as follows:

A1: Make sure the switch is connected to the power source with the AC power cord 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.

### Q3. Why are port 7-16 not supplying power for PoE devices?

If total power consumption of connected PoE devices exceeds 192W, the system will cut off the power to ports with larger serial numbers to compensate for the overload. For example, port 1-5 and port 7 are consuming 30W respectively, if an additional PoE device with 25W is inserted to port 6, the system will cut off the power to port 7.

## Appendix B Specifications

Standard	IEEE802.3i, 802.3u, 802.3ab, 802.3z, 802.3af, 802.3at, 802.3x
Protocol	CSMA/CD
Interface	16 10/100Mbps RJ45 Ports (Auto-Negotiation/Auto MDI/MDIX) 2 10/100/1000Mbps RJ45 Ports (Auto-Negotiation/Auto MDI/MDIX) 2 1000Mbps SFP Slots (Combo)
Port Standard	10BASE-T: UTP category 3, 4, 5 cable 100BASE-TX/1000Base-T: UTP category 5, 5e or above cable 1000BASE-X: MMF, SMF
PoE Port (RJ45)	PoE Port: Port 1-16 Total Power Supply: 192W
Switching Capacity	7.2Gbps
Mac Address Table	8K
Transfer Method	Store-and-Forward
Power Supply	100~240V AC, 50/60Hz
Fan Quantity	2
Operating Temperature	0°C to 50°C (32°F to 122°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

## **FCC STATEMENT**

Product Name: 16-Port 10/100Mbps + 2-Port Gigabit Unmanaged PoE Switch

Model Number: TL-SL1218MP

Responsible party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc.

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

Website: <http://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6803

E-mail: [sales.usa@tp-link.com](mailto: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 USA Corporation, 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: 2018/10/31

## **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.

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 and 2011/65/EU. The original EU declaration of conformity may be found at <http://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.
- Do not use damaged charger or USB cable to charge the device.

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.

## 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拔掉電源線。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。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。

此為甲類資訊技術設備，于居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

### 限用物質含有情況標示聲明書




產品元件名稱	限用物質及其化學符號					
	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 CrVI	多溴聯苯 PBB	多溴二苯醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應板	-	○	○	○	○	○

備考1. “超出0.1 wt %”及“超出0.01 wt %”系指限用物質之百分比含量超出百分比含量基準值。  
備考2. “○”系指該項限用物質之百分比含量未超出百分比含量基準值。  
備考3. “-”系指該項限用物質為排除項目。

## Industry Canada Statement

CAN ICES-3 (A)/NMB-3(A)

## Explanation of the symbols on the product label

Symbol	Explanation
	AC voltage
	Indoor use only
	<p>RECYCLING</p> <p>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.</p> <p>User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.</p>

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





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