

# Installation Guide

Gigabit Uplink Unmanaged Switch

TL-SL1226/TL-SL1351

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## FCC STATEMENT



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.

## 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.



## Related Document

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

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

## About this Installation Guide

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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 Lightning Protection.** This chapter illustrates how to prevent lightning damage.

**Chapter 4 Connection.** This chapter illustrates how to do the physical connection of the switch.

**Appendix A Hardware Specifications.**

**Appendix B Technical Support.**

## Audience

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This Installation Guide is for:

Network Engineer



Network Administrator

## Conventions

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Due to the similarity in structure of TL-SL1226/TL-SL1351 Gigabit Uplink Unmanaged Switch series, in this Installation Guide we take TL-SL1351 as an example to illustrate Chapter 2 Installation, Chapter 3 Lightning Protection and Chapter 4 Connection.

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.

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# Chapter 1 Introduction

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## 1.1 Product Overview

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TL-SL1226/TL-SL1351 Gigabit Uplink Unmanaged Switch provides you with a high-performance, low-cost, easy-to-use, seamless and standard upgrade to boost your old network to 1000Mbps. Increase the speed of your network server and backbone connections, making Gigabit connection to a server or uplinking a network necessarily.

The TP-LINK TL-SL1226/TL-SL1351 Gigabit Uplink Unmanaged Switch features a non-blocking switching architecture that forwards and filters packets at full wire-speed for maximum throughput. The switch supports MAC address auto-learning and auto-aging, IEEE802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode. It is compatible with all 10Mbps, 100Mbps and 1000Mbps Ethernet devices because it is standard-based.

The TL-SL1226/TL-SL1351 Gigabit Uplink Unmanaged Switch is plug-and-play and no configuration is required. Auto MDI/MDIX cable detection on all ports eliminates the need for crossover cable or Uplink port. Each port can be used as general port or Uplink port, and any port can be simply plugged into a server, a hub, a router or a switch, using the straight cable or crossover cable. Diagnostic LEDs which display link status and activity allow you to quickly detect and correct problems on the network.

## 1.2 Features

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- Complies with IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z (for TL-SL1351 only) standards
- 24/48 10/100Mbps Auto-Sense RJ45 ports supporting Auto-MDI/MDIX
- 2/2 10/100/1000Mbps Auto-Sense RJ45 ports supporting Auto-MDI/MDIX
- 1 SFP(Small Form Pluggable) module interface (For TL-SL1351 only)
- Supports Auto MDI / MDIX cable detection on all ports to eliminate the need for crossover cable or Uplink port
- Non-blocking switching architecture that forwards and filters packets at full wire-speed for maximum throughput
- Supports MAC address auto-learning and auto-aging
- Supports IEEE802.3x flow control for full-duplex mode and backpressure for half-duplex transfer mode
- LED indicators for monitoring power, link, activity, speed
- Internal power supply

## 1.3 Appearance

### ■ Front Panel

The front panel of TL-SL1226 is shown as the following figure.

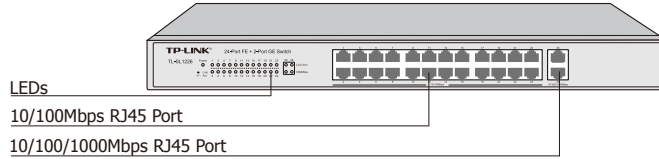


Figure 1-1 Front Panel of TL-SL1226

The front panel of TL-SL1351 is shown as the following figure.

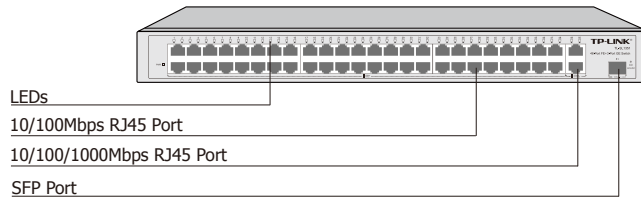


Figure 1-2 Front Panel of TL-SL1351

### Port Feature

Model	10/100Mbps RJ45 Port	10/100/1000Mbps RJ45 Port	SFP Port
TL-SL1226	24	2	-
TL-SL1351	48	2	1

### LEDs

LED	Status	Indication
Power/ PWR	On	The switch is powered on
	Flashing	Power supply is abnormal
	Off	The switch is powered off or power supply is abnormal
Link/Act	On	A device is connected to the corresponding port, but no data is being transmitted or received
	Flashing	Data is being transmitted or received
	Off	No device is connected to the corresponding port
1000Mbps	On	The corresponding port is running at 1000Mbps
	Flashing	Data is being transmitted or received
	Off	There is no device linked to the corresponding port or the port is running at 10Mbps or 100Mbps

### 10/100Mbps Port

Designed to connect to the device with a bandwidth of 10Mbps or 100Mbps.

### 10/100/1000Mbps Port

Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps or 1000Mbps. Each has a corresponding 1000Mbps LED.

### SFP Port (for TL-SL1351 Only)

Designed to install the SFP module. TL-SL1351 features one individual SFP port.

## ■ Rear Panel

The rear panel of TL-SL1226 is shown as the following figure.

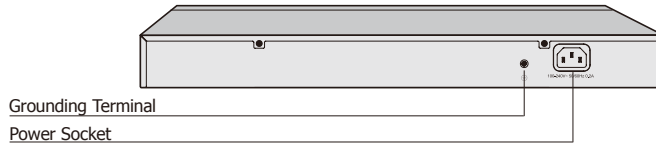


Figure 1-3 Rear Panel of TL-SL1226

The rear panel of TL-SL1351 is shown as the following figure.

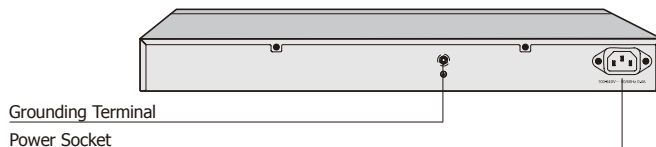


Figure 1-4 Rear Panel of TL-SL1351

### 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 **Chapter 3 Lightning Protection**.

### 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).



**Caution:** Please use the provided power cord.

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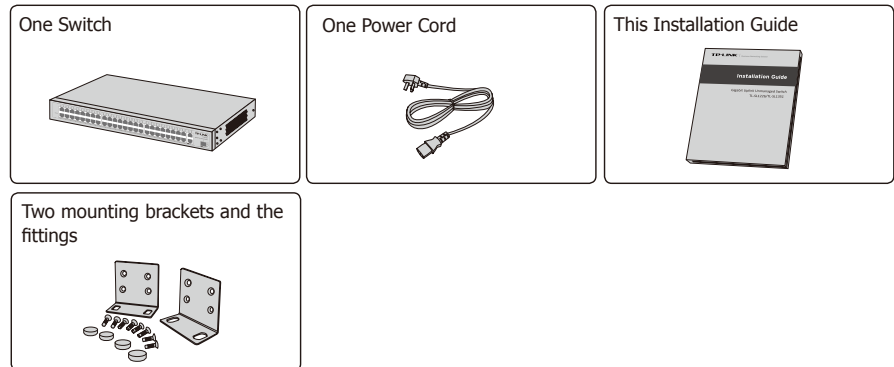
## Chapter 2 Installation

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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.



## ■ Site Requirements

To ensure normal operation and long service life of the device, please install it in an environment that meets the requirements described in the following subsection.

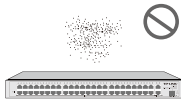
### Temperature/Humidity



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 ~ 40°C	10% ~ 90%RH Non-condensing
Storage	-40°C ~ 70°C	5% ~ 90%RH Non-condensing

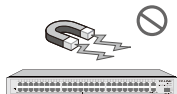
### Clearness



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.

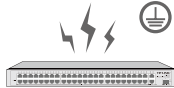
### Electromagnetic Interference



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.

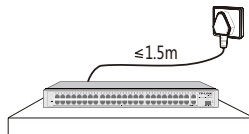


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**Note:** For detailed lightning protection measures, please refer to **Chapter 3 Lightning Protection**.

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## 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

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- Phillips screwdriver
- ESD-preventive wrist wrap
- Cables



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

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## 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.

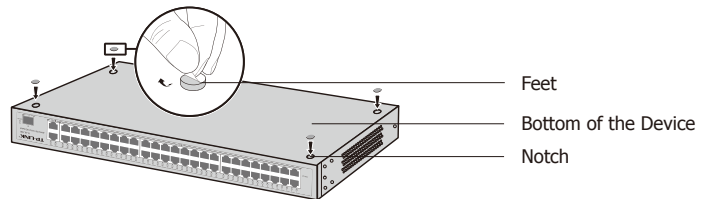


Figure 2-1 Desktop Installation

### ■ 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.

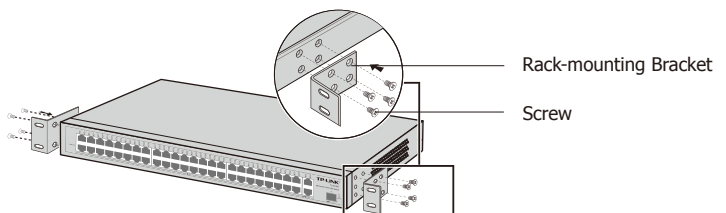


Figure 2-2 Bracket Installation

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.

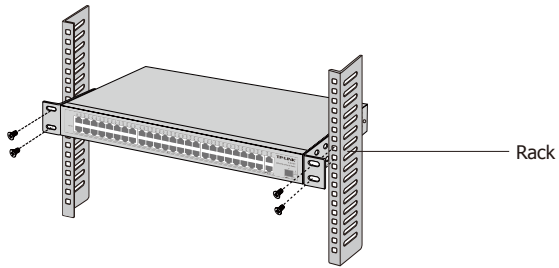


Figure 2-3 Rack Installation



**Caution:**

- Please set 5~10cm 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 Lightning Protection

### 3.1 Cabling Reasonably

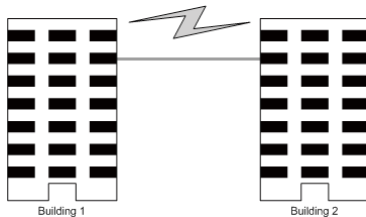
In the actual network environment, you may need cable outdoors and indoors, and the requirements for cabling outdoors and indoors are different. A reasonable cabling system can decrease the damage of induced lightning to devices.



**Note:** It's not recommended using Ethernet cables outdoors. When cabling outdoors, please use a signal lightning arrester.

#### ■ Requirements for Cabling Outdoors

- Aerial cabling without safeguard is not allowed.



- It's not allowed cabling down the building to connect network devices in different floors.



- Outdoor cables should be buried and paved to the indoor through basement. A piece of steel wire should be paved underground along the pipe and connected to the lightning protection terminal of the building for shielding. Before connecting the cable to the device, install a signal lightning arrester on the corresponding port.
- When an aerial cable is set up, the cable should be through a metal pipe (15m long at least) before coming into the building. The two ends of this metal pipe should be grounded. Before connecting the cable to the device, install a signal lightning arrester on the corresponding port.
- It's not necessary to pave STP cables through pipes. The shielded layer of STP cable should be well grounded. Before connecting the cable to the device, install a signal lightning arrester on the corresponding port.

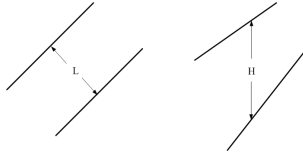
### ■ Requirements for Cabling Indoors

When cabling indoors, keep a certain distance away from the devices that may cause high-frequency interferences, such as down-conductor cable, powerline, power transformer and electromotor.

- The main cable should be paved in the metal raceway of the access shaft. When cabling, keep the loop area formed by the cable itself as small as possible.
- Requirements for the distance between Ethernet cable and other pipelines are shown in the table.

Other Pipelines	Ethernet Cable	
	Min Parallel Net Length L (mm)	Min Parallel-overlapping Net Height H (mm)
Down-conductor	1000	300
PE	50	20
Service pipe	150	20
Compressed air pipe	150	20
Thermal pipe (not wrapped)	500	500
Thermal pipe (wrapped)	300	300
Gas pipe	300	20

The two diagrams below demonstrate parallel net length and parallel-overlapping net height.



**Note:** The above minimum net length/height is required when metal raceway is not used. If any requirements cannot be met, you can add a steel tube or metal raceway for shielding.

- Requirements for the distance between Ethernet cable and high-power electric devices are in following tables.

Cable	Pave Way	Min Parallel Length (mm)
<2kVA powerline	Parallel cabling	130
	One is in the grounded metal raceway or metal pipe	70
	The both are in the grounded metal raceway or metal pipe	10
2~5kVA powerline	Parallel cabling	300
	One is in the grounded metal raceway or metal pipe	150
	The both are in the grounded metal raceway or metal pipe	80
>5kVA powerline	Parallel cabling	600
	One is in the grounded metal raceway or metal pipe	300
	The both are in the grounded metal raceway or metal pipe	150

Device	Min Distance (m)
Switch case	1.00
Transformer room	2.00
Elevator tower	2.00
Air-conditioner room	2.00

### 3.2 Connect to Ground

Connecting the device to ground is to quickly release the lightning over-voltage and over-current of the device, which is also a necessary measure to protect the body from electric shock.

In different environments, the device may be grounded differently. The following will instruct you to connect the device to the ground in two ways, connecting to the grounding bar or connecting to the ground via the power cord. Please connect the device to ground in the optimum way according to your specific operation environment.

#### ■ Connecting to the Grounding Bar

If the device is installed in the Equipment Room, where a grounding bar is available, you are recommended to connect the device to the grounding bar as shown in the following figure.

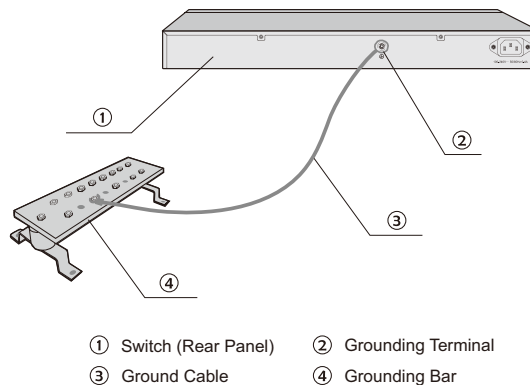


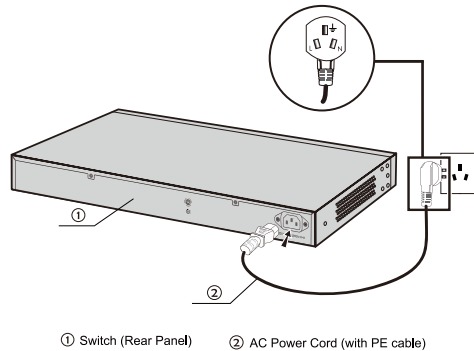
Figure 3-1 Connecting to the Grounding Bar



**Note:** The grounding bar and the ground cable are not provided with our product. If needed, please self purchase them.

### ■ Connecting to the Ground via the Power Supply

If the device is installed in the normal environment, the device can be grounded via the PE (Protecting Earth) cable of the AC power supply as shown in the following figure.



① Switch (Rear Panel)    ② AC Power Cord (with PE cable)

Figure 3-2 Connecting to the Ground



#### 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.
- If you intend to connect the device to the ground via the PE (Protecting Earth) cable of AC power cord, please make sure the PE (Protecting Earth) cable in the electrical outlet is well grounded in advance.

## 3.3 Equipotential Bonding

Equipotential Bonding is the practice of intentionally electrically connecting all earthed systems to the same grounding grid or connecting the grounding grids of all the earthed systems together through the ground or overground metal so as to create an earthed equipotential zone. When lightning occurs, the high voltage produced by lightning current in all systems will meanwhile exist in their ground cables, and thus all ground cables have the same electrical potential and basically eliminate the electric strikes between the systems.

The figure below illustrates how to practice equipotential bonding in a network.



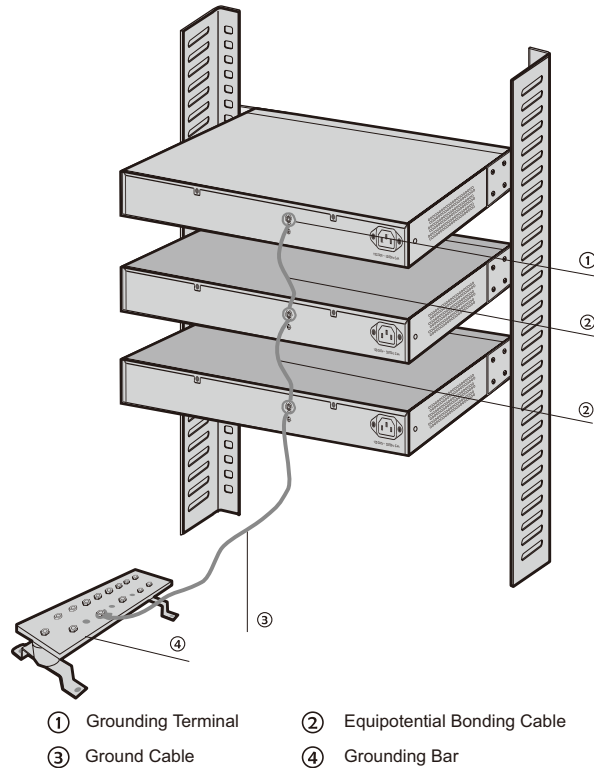


Figure 3-3 Equipotential Bonding

When equipotential bonding, please note that the cable should be copper wrapped Kelly with its area being  $6\text{mm}^2$  at least. The shorter cable the better, and use a grounding bar to establish an equipotential bonding point.



**Note:** The equipotential bonding cable is not provided with our product. If needed, please self purchase it.

### 3.4 Use Lightning Arrester

Power lightning arrester and signal lightning arrester are used for lightning protection.

Power lightning arrester is used for limiting the voltage surge due to a lightning. If an outdoor AC power cord should be directly connected to the device, please use a power lightning arrester.



**Note:** Power lightning arrester is not provided with our product. If needed, please self purchase it.

Signal lightning arrester is used to protect RJ45 ports of the device from lightning. When cabling outdoors, please install a signal lightning arrester before connecting the cable to the device.

When purchasing or using a signal lightning arrester, please observe the following rules:

- The port rate of the signal lightning arrester should match the rate of the desired port on the device. If it is not matched, this signal lightning arrester will not work. Purchase a standard lightning arrester.
- Install signal lightning arrester near the protected device and connect it to the ground via a shorter ground cable.

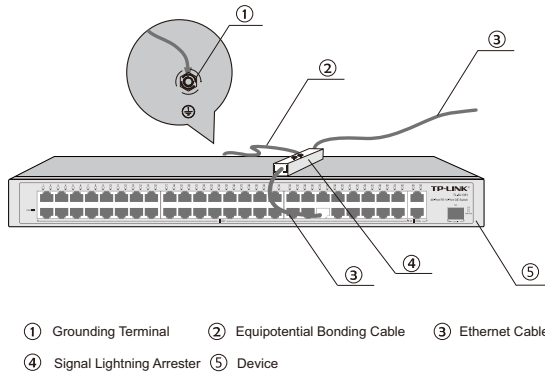


Figure 3-4 Equipotential Bonding



**Note:** Signal lightning arrester is not provided with our product. If needed, please self purchase it.

## Chapter 4 Connection

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### 4.1 Ethernet Port

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Please connect the Ethernet ports of the switch to the network devices by RJ45 cable as the following figure shown.

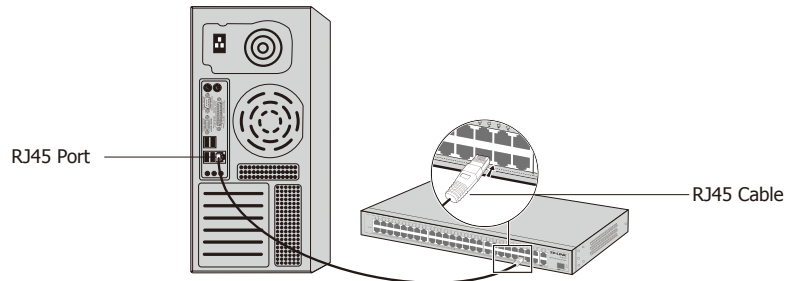


Figure 4-1 Connecting the RJ45 Port

### 4.2 SFP Port

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Connect the SFP port to a SFP module. The switch could identify and configure the SFP module automatically (for TL-SL1351 only).

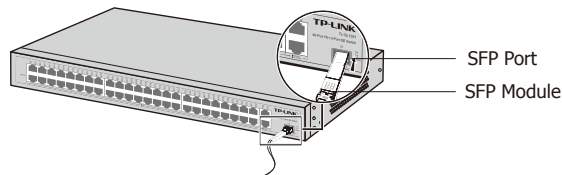


Figure 4-2 Inserting the SFP Module

### 4.3 Verify Installation

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After completing the installation, please verify the following items:

- There are 5~10cm 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 device.

## 4.4 Power On

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Plug in the female connector of the provided power cord into the power socket of the device, and the male connector into a power outlet as the following figure shown.

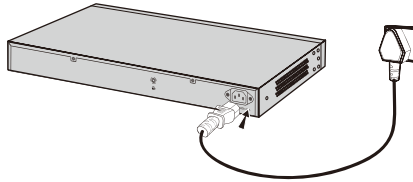


Figure 4-3 Connecting to Power Supply



**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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## 4.5 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, its LED indicators will respond as follows:

- For TL-SL1226, the Power LED indicator will light up first and remain ON. After about three seconds, all port LED indicators will light up for three seconds and then go off. This process indicates that the device is successfully initialized.
- For TL-SL1351, the PWR LED indicator will light up first and remain ON. Other LED indicators will light up for one second and then go off. This process indicates that the device is successfully initialized.

## Appendix A Hardware Specifications

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Item	Content
Standards	IEEE802.3 10Base-T
	IEEE802.3u 100Base-TX
	IEEE802.3ab 1000Base-T
	IEEE802.3z 1000Base-X (for TL-SL1351 only)
	ANSI/IEEE Std 802.3 Nway
	IEEE802.3x
Transmission Medium	10Base-T: UTP/STP of Cat. 3 or above(maximum 100m)
	100Base-TX: UTP/STP of Cat. 5 or above(maximum 100m)
	1000Base-TX: UTP/STP of Cat. 5 or above(maximum 100m)
Safety & Emissions	FCC, CE
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Frame Forward Rate	10Base-T: 14880pps/Port
	100Base-TX: 148810pps/Port
	1000Base-T: 1488095pps/Port
	1000Base-X: 1488095pps/Port (for TL-SL1351 only)
LEDs	Power, Link/Act, 1000Mbps (for TL-SL1226) PWR, Link/Act, 1000Mbps (for TL-SL1351)
Operating Temperature	0°C~40°C
Storage Temperature	-40°C~70°C
Operating Humidity	10%~90%RH Non-condensing
Storage Humidity	5%~90%RH Non-condensing

## Appendix B Technical Support

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- For more troubleshooting help, go to:  
<http://www.tp-link.com/en/support/faq>
- To download the latest Firmware, Driver, Utility and User Guide, go to:  
<http://www.tp-link.com/en/support/download>
- For all other technical support, please contact us by using the following details:

Global	Tel: +86 755 2650 4400 Fee: Depending on rate of different carriers, IDD. E-mail: <a href="mailto:support@tp-link.com">support@tp-link.com</a> Service time: 24hrs, 7 days a week
Singapore	Tel: +65 6284 0493 Fee: Depending on rate of different carriers. E-mail: <a href="mailto:support.sg@tp-link.com">support.sg@tp-link.com</a> Service time: 24hrs, 7 days a week
UK	Tel: +44 (0) 845 147 0017 Fee: Landline: 1p-10.5p/min, depending on the time of day. Mobile: 15p-40p/min, depending on your mobile network. E-mail: <a href="mailto:support.uk@tp-link.com">support.uk@tp-link.com</a> Service time: 24hrs, 7 days a week
USA/Canada	Toll Free: +1 866 225 8139 E-mail: <a href="mailto:support.usa@tp-link.com">support.usa@tp-link.com</a> (USA) <a href="mailto:support.ca@tp-link.com">support.ca@tp-link.com</a> (Canada) Service time: 24hrs, 7 days a week
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