

Installation Guide

Smart Switch

TL-SL2210/TL-SL2218/TL-SL2428/TL-SL2452

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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

The User Guide is provided on the resource CD. To obtain the latest product information, please visit the official Website:

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

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 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.

Chapter 5 Login to the Switch. This chapter instructs you to login to the switch via Web Interface.

Appendix A Troubleshooting.

Appendix B Hardware Specifications.

Appendix C Technical Support.

Audience

This Installation Guide is for:



Network Engineer

Network Administrator

Conventions

Due to the similarity in structure of TL-SL2210/TL-SL2218/TL-SL2428/TL-SL2452 Smart Switch, in this Installation Guide we take TL-SL2218 as an example to illustrate Chapter 2 Installation, Chapter 3 Lightning Protection, Chapter 4 Connection and Chapter 5 Login to the Switch.

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

1.1 Product Overview

TL-SL2210/TL-SL2218/TL-SL2428/TL-SL2452 is compliant with the IEEE802.3 Ethernet protocols.

These switches are equipped with powerful management interface, via which system, port, network, VLAN and priority can be configured. They provide a variety of service features and multiple powerful functions with high security. The EIA-standardized framework and smart configuration capacity can provide flexible solutions for a variable scale of networks. QoS and IGMP snooping/filtering optimize voice and video application. SNMP, RMON, WEB Log-in bring abundant management policies.

TL-SL2210/TL-SL2218/TL-SL2428/TL-SL2452 integrates multiple functions with excellent performance, and are friendly to manage, which can fully meet the need of the users demanding higher networking performance.

1.2 Appearance

■ Front Panel

The front panel of TL-SL2210 is shown as Figure 1-1.

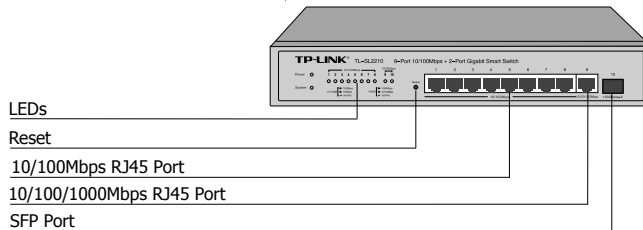


Figure 1-1 Front Panel of TL-SL2210

The front panel of TL-SL2218 is shown as Figure 1-2.

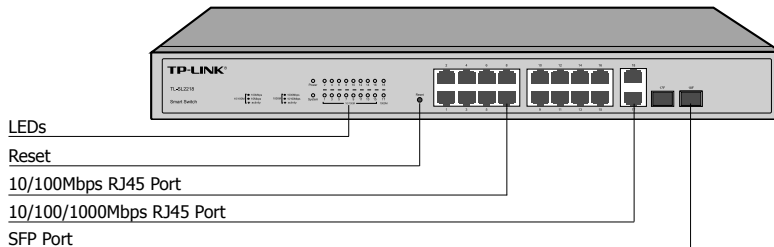


Figure 1-2 Front Panel of TL-SL2218

The front panel of TL-SL2428 is shown as Figure 1-3.

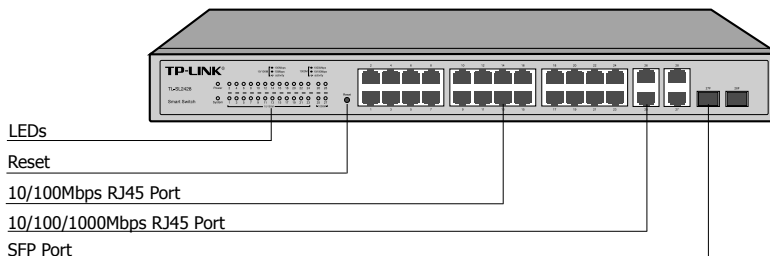


Figure 1-3 Front Panel of TL-SL2428

The front panel of TL-SL2452 is shown as Figure 1-4.

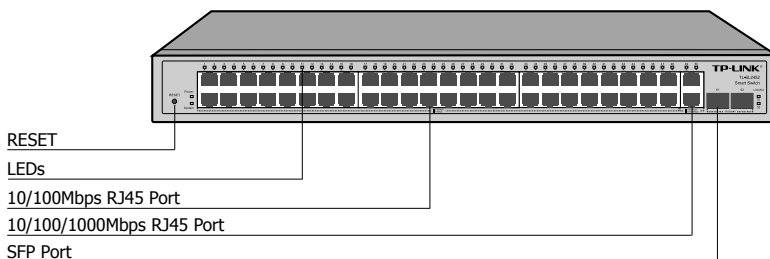


Figure 1-4 Front Panel of TL-SL2452

LEDs

LED	Status	Indication
Power	On(green)	The switch is powered on
	Off/ Flashing	The switch is powered off or power supply is abnormal
System	Flashing	The switch works properly
	On/Off	The switch is powered off or the switch works improperly
10/100M (10/100Mbps)	On	A device is linked to the corresponding port
	Flashing	Data is being transmitted or received
	Green	The linked device is running at 100Mbps
	Yellow	The linked device is running at 10Mbps
1000M (1000Mbps)	On	A device is linked to the corresponding port
	Flashing	Data is being transmitted or received
	Green	The linked device is running at 1000Mbps
	Yellow	The linked device is running at 10/100Mbps

Port Feature

Model	10/100Mbps RJ45 Port	10/100/1000Mbps RJ45 Port	SFP Port
TL-SL2210	8	1	1
TL-SL2218	16	2	2(Combo)
TL-SL2428	24	4	2(Combo)
TL-SL2452	48	2	2

Reset(RESET)

With the switch powered on, press Reset button for five seconds to reset the software setting to its factory default settings.

10/100Mbps RJ45 Port

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

10/100/1000Mbps RJ45 Port

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

SFP Port

Designed to install the SFP module. TL-SL2218/TL-SL2428 features some SFP transceiver slots that are shared with the associated RJ45 ports. The associated two ports are referred as a "Combo" port, which means they cannot be used simultaneously, otherwise only SFP port works. Meanwhile, the associated two ports share the same LED. For TL-SL2218, Port 17 shares the same LED with Port 17F and Port 18 shares the same LED with Port 18F; for TL-SL2428 Port 27 shares the same LED with Port 27F and Port 28 shares the same LED with Port 28F.

■ Rear Panel

The rear panel of TL-SL2210 is shown as Figure 1-5.

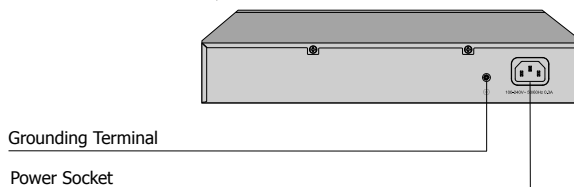


Figure 1-5 Rear Panel of TL-SL2210

The rear panel of TL-SL2218 is shown as Figure 1-6.

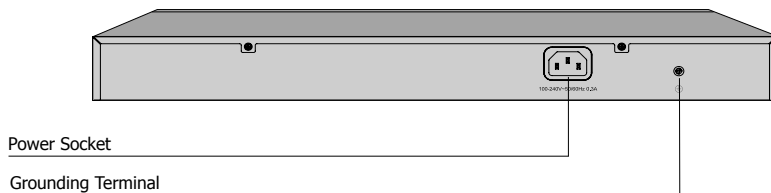


Figure 1-6 Rear Panel of TL-SL2218

The rear panel of TL-SL2428 is shown as Figure 1-7.

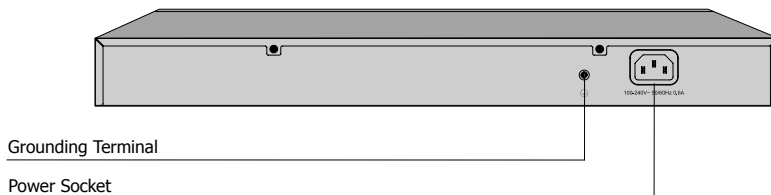


Figure 1-7 Rear Panel of TL-SL2428

The rear panel of TL-SL2452 is shown as Figure 1-8.

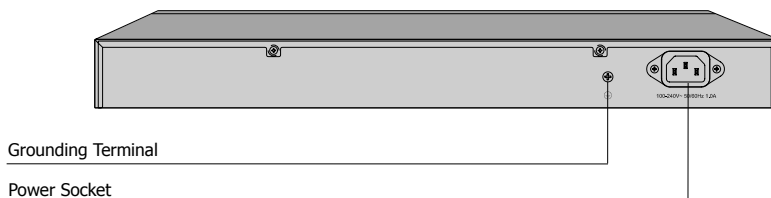


Figure 1-8 Rear Panel of TL-SL2452

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.

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**.



Caution: Please use the provided power cord.

Chapter 2 Installation

2.1 Package Contents

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

One Switch



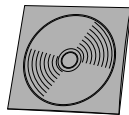
One Power Cord



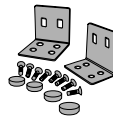
This Installation Guide



One Resource CD



Two mounting brackets and the fittings



2.2 Safety Precautions

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

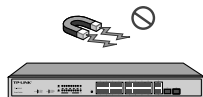
Cleanness



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

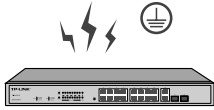


Electronic elements including capacitance and inductance on the device can be affected by external interferences, such as conducted emission by capacitance coupling, inductance coupling, and impedance coupling. To decrease the interferences, please make sure to take the following measures:

- 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.

Lightening Protection



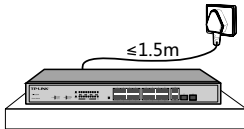
Extremely high voltage currents can be produced instantly when lightning occurs and the air in the electric discharge path can be instantly heated up to 20,000°C. As this instant current is strong enough to damage electronic devices, more effective lightning protection measures should be taken.

- 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 **Chapter 3 Lightning Protection**.

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.

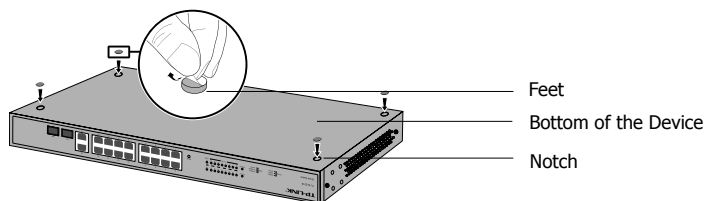


Figure 2-1 Desktop Installation

■ 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.

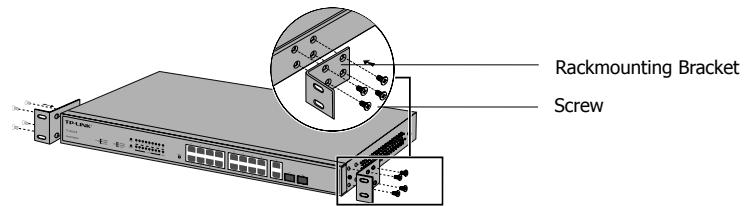


Figure 2-2 Bracket Installation

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.

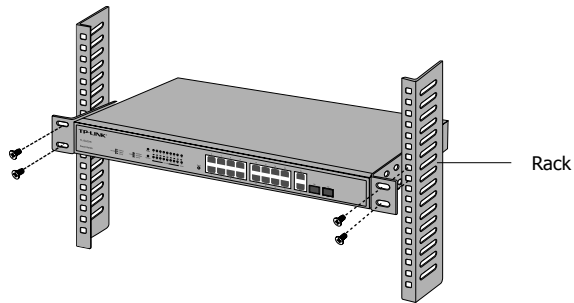


Figure 2-3 Rack Installation



Caution:

- Please set 5~10cm 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

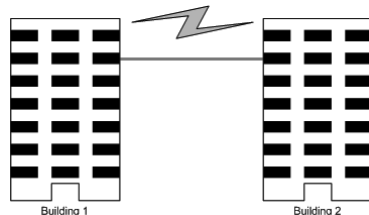
In the actual network environment, you may need cable outdoors and indoors, and the requirements for cabling outdoors and indoors are different. A reasonable cabling system can decrease the damage of induced lightning to devices.



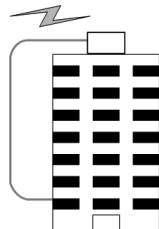
Note: It's not recommended using Ethernet cables outdoors. When cabling outdoors, please use a signal lightning arrester.

■ 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.

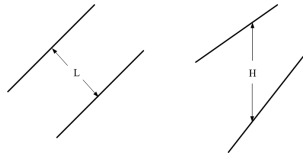
■ **Requirements for Cabling Indoors**

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.

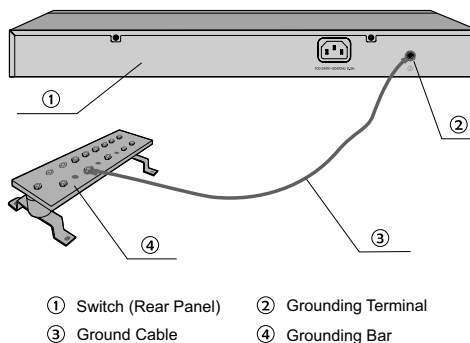


Figure 3-1 Connecting to the Grounding Bar



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.

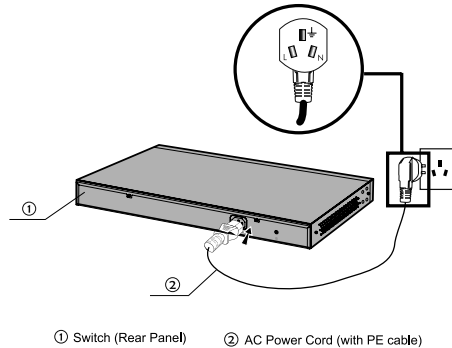


Figure 3-2 Connecting to the Ground



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.

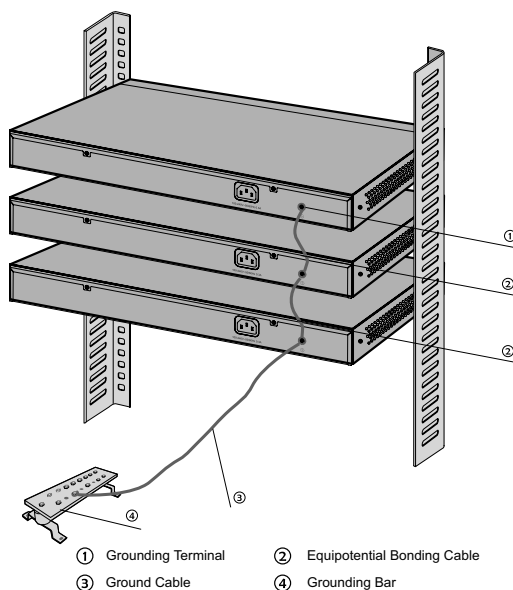


Figure 3-3 Equipotential Bonding

When equipotential bonding, please note that the cable should be copper wrapped Kelly with its area being 6mm^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.

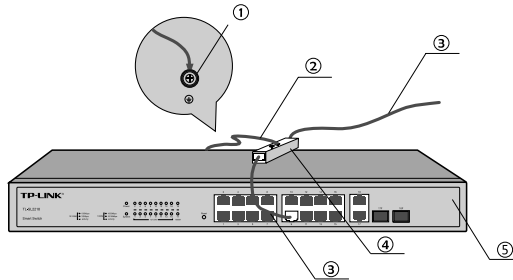


Note: Power lightning arrester is not provided with our product. If needed, please self purchase it.

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.



- ① Grounding Terminal ② Equipotential Bonding Cable ③ Ethernet Cable
④ Signal Lightning Arrester ⑤ Device

Figure 3-4 Equipotential Bonding



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

Chapter 4 Connection

4.1 Ethernet Port

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

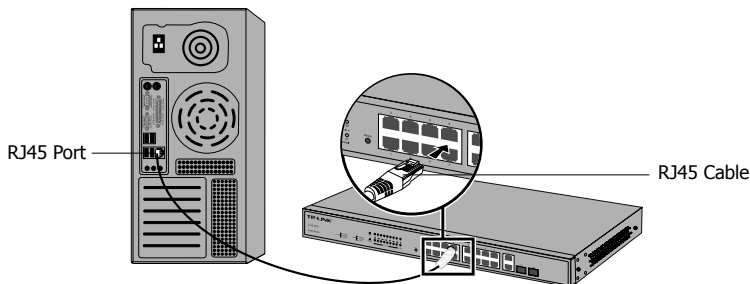


Figure 4-1 Connecting the RJ45 Port

4.2 SFP Port

Connect the SFP port to a SFP module. For the switch, if an SFP transceiver (purchased separately) is installed in a slot and has a valid link on the port, the associated RJ45 port will be disabled and cannot be used.

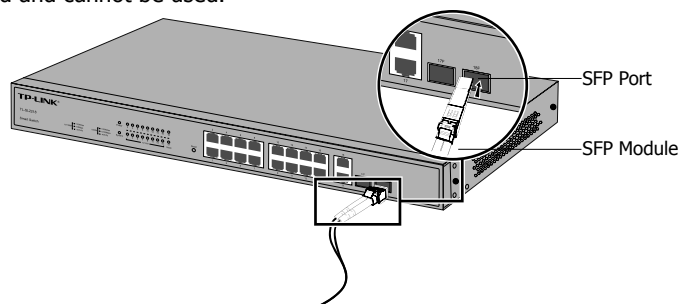


Figure 4-2 Connecting the LAN Port



Note:

- SFP module supports hot-plugging, plug the SFP module into the SFP port and the switch can identify it automatically.
- The SFP port supports 100/1000Base-FX SFP module at full-duplex mode. When using a SFP module, you need to log on to the GUI of the switch and configure the corresponding Speed and Duplex mode on **Switching**→**Port**→**Port Config** page. For 100M module, please select 100MFD while select 1000MFD for gigabit module. By default, the Speed and Duplex mode of SFP mode is 1000MFD. For TL-SL2210/TL-SL2452, the SFP port can only be used with a gigabit module.

4.3 Verify Installation

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 devices.

4.4 Power On

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 shown.

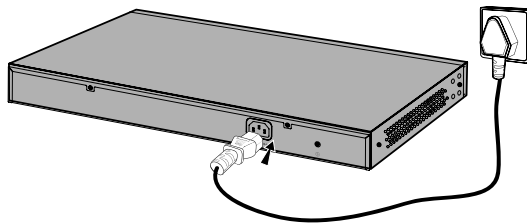


Figure 4-4 Connecting to Power Supply



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.

4.5 Initialization

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:

- The Power LED lights on all the time.
- After keeping off for several seconds, the LED indicators of all the ports will flash momentarily and then turn off again after initialization.
- The System LED indicator will flash, which represents a successful initialization.

Chapter 5 Login to the Switch

1. To access the GUI of the switch, open a web browser and type the default management address `http://192.168.0.1` in the address field of the browser, then click the GO button or press the Enter key.



Figure 5-1 Web Browser



Note: To log on to the GUI of the switch, the IP address of your PC should be set in the same subnet addresses of the switch. The IP address is 192.168.0.x ("x" is any number from 2 to 254), Subnet Mask is 255.255.255.0. For the detailed instructions as to how to do this, please refer to Appendix B in the User Guide on the Resource CD.

2. Enter admin for the default User Name and Password, both in lower case letters. Then click the Login button or press the Enter key.



Figure 5-2 Login

3. After a successful login, the main page will appear as the following figure, and you can configure the function by clicking the setup menu on the left side of the screen.

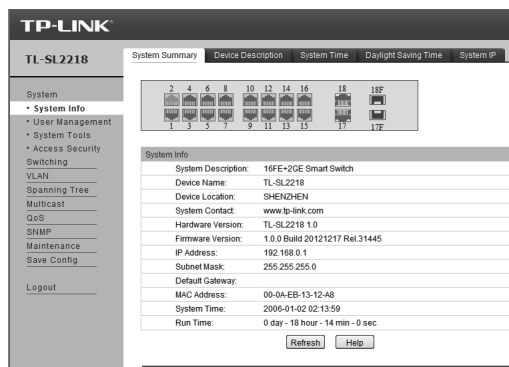


Figure 5-3 Main Page of the Switch

Appendix A Troubleshooting

Q1. What could I do if I forgot the username and password of the switch?

With the switch powered on, press the Reset button on the front panel for five seconds to reset the system to its factory default settings, and the default login user name and password are both admin.

Q2. Why does the Power LED work abnormally?

The Power LED should be lit up when the power system works normally. If the Power LED worked abnormally, please take the following steps:

1. Make sure that the power cable is connected properly, and the power contact is normal.
2. Make sure the voltage of the power supply meets the requirement of the input voltage of the switch.

Q3. What could I do if I could not access the web-based configuration page?

You are recommended to check the following items:

1. Check every port LED on the switch and make sure the cable is connected properly.
2. Try another port on the switch and make sure the cable meets the requirement and works normally.
3. Turn off the power. After a while, turn on the power again.
4. Make sure the IP address of your PC is set within the subnet of the switch.
5. If you still cannot access the configuration page, please restore the switch to its factory default. Then the IP address should be set as 192.168.0.x ("x" is any number from 2 to 254) and Subnet Mask as 255.255.255.0.

Appendix B Hardware Specifications

Item	Content
Standards and Protocol	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX/100Base-FX
	IEEE 802.3ab 1000Base-T
	IEEE 802.3z 1000Base-X
	IEEE 802.3x Flow Control
Transmission Medium	10Base-T: UTP/STP of Cat. 3 or above
	100Base-TX: UTP/STP of Cat. 5 or above
	1000Base-T: 4-pair UTP ($\leq 100\text{m}$) of Cat. 5, Cat. 5e, and Cat. 6 or above
	1000Base-X: MMF or SMF SFP Module(Optional)
LEDs	Power, System, 10/100Mbps LEDs , 1000Mbps LEDs (TL-SL2210/TL-SL2452) Power, System, 10/100M LEDs , 1000M LEDs (TL-SL2218/TL-SL2428)
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 C Technical Support

- For more help, please go to: <http://www.tp-link.com/en/support/faq>
- To download the latest Firmware, Driver, Utility and User Guide, please 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: support@tp-link.com Service time: 24hrs, 7 days a week
Australia/New Zealand	Tel: AU 1300 87 5465 (Depending on 1300 policy.) NZ 0800 87 5465 (Toll Free) E-mail: support.au@tp-link.com (Australia) support.nz@tp-link.com (New Zealand) Service time: 24hrs, 7 days a week
Brazil	Toll Free: 0800 608 9799 (Portuguese Service) E-mail: suporte.br@tp-link.com Service time: Monday to Saturday, 09:00 to 20:00; Saturday, 09:00 to 15:00
France	Tel: 0820 800 860 (French service) Fee: 0.118 EUR/min from France Email: support.fr@tp-link.com Service time: Monday to Friday 9:00 to 18:00 *Except French Bank holidays
Germany/Austria	Tel: +49 1805 875 465 (German Service) +49 1805 TPLINK +49 820 820 360 Fee: Landline from Germany: 0.14EUR/min. Landline from Austria: 0.20EUR/min. E-mail: support.de@tp-link.com Service time: Monday to Friday, 9:00 to 12:30 and 13:30 to 17:30. GMT+ 1 or GMT+ 2 (DST in Germany) *Except bank holidays in Hesse
Indonesia	Tel: (+62) 021 6386 1936 Fee: Depending on rate of different carriers. E-mail: support.id@tp-link.com Service time: Monday to Friday 9:00 to 18:00 *Except public holidays
Italy	Tel: +39 023 051 9020 Fee: Depending on rate of different carriers. E-mail: support.it@tp-link.com Service time: Monday to Friday, 9:00 to 13:00 and 14:00 to 18:00
Malaysia	Toll Free: 1300 88 875 465 Email: support.my@tp-link.com Service time: 24hrs, 7 days a week
Poland	Tel: +48 (0) 801 080 618 +48 223 606 363 (if calls from mobile phone) Fee: Depending on rate of different carriers. E-mail: support.pl@tp-link.com Service time: Monday to Friday 9:00 to 17:00. GMT+1 or GMT+2 (DST)

Russian Federation	<p>Tel: 8 (499) 754 5560 (Moscow NO.) 8 (800) 250 5560 (Toll-free within RF) E-mail: support.ru@tp-link.com Service time: From 09:00 to 21:00 (Moscow time) *Except weekends and holidays in RF</p>
Singapore	<p>Tel: +65 6284 0493 Fee: Depending on rate of different carriers. E-mail: support.sg@tp-link.com Service time: 24hrs, 7 days a week</p>
Switzerland	<p>Tel: +41 (0) 848 800 998 (German Service) Fee: 4-8 Rp/min, depending on rate of different time. E-mail: support.ch@tp-link.com Service time: Monday to Friday, 9:00 to 12:30 and 13:30 to 17:30. GMT+ 1 or GMT+ 2 (DST)</p>
Turkey	<p>Tel: 0850 7244 488 (Turkish Service) Fee: Depending on rate of different carriers. E-mail: support.tr@tp-link.com Service time: 9:00 to 21:00, 7 days a week</p>
UK	<p>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: support.uk@tp-link.com Service time: 24hrs, 7 days a week</p>
Ukraine	<p>Tel: 0800 505 508 Fee: Free for Landline; Mobile: Depending on rate of different carriers. E-mail: support.ua@tp-link.com Service time: Monday to Friday 10:00 to 22:00</p>
USA/Canada	<p>Toll Free: +1 866 225 8139 E-mail: support.usa@tp-link.com Service time: 24hrs, 7 days a week</p>

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