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■ Conventions

This Install Guide is for: TEG1009P, TEG1009P-EI, TEG1309P.

■ Preface

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Introduction to switch features and its physical description.
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Introduction to the installation methods and consideration.
Chapter 3 Hardware Connection
Introduction to the connection between the switch and other devices and considerations

■ Technical Support & Helplines

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Chapter 1 Introduction

1.1 Product Overview

This is a Gigabit Unmanaged Switch. It provides you with an ideal seamless solution of high performance, low cost, easy-to-use, and standard upgrade to boost your old network to 1000Mbps. The switch supports 10/100/1000M auto-sensing, and protects the existing network investment when you enjoy the Gigabit network. The switch is plug-and-play with no configuration required. Diagnostic LEDs which display link status and activity, allow you to quickly detect and correct problems on the network. It also applies Power over Ethernet (PoE) power supply, up to 30W output power per port, which can solve the problems resulting from wiring complexities, high cost and maintenance difficulties of Wireless LAN APs, IP Phones and IP Cameras.

1.2 Package Contents

Open the package and verify the following items carefully. If any of the listed items is damaged or missing, please contact your dealer.

- Switch*1
- Power Cord Set*1
- Install Guide*1
- Screw Set*2
- Magnet*4
- Cushion*4

1.3 Physical Description

■ Front Panel

The front panel mainly consists of RJ45 ports and LEDs, shown as Figure 1-1.

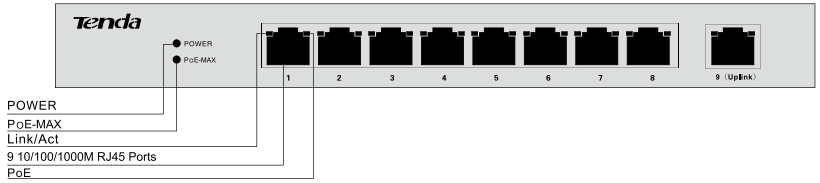

Figure 1-1 Front Panel

(1) RJ45 Ports

There are 9 10/100/1000M RJ45 ports, of which one is the Uplink port, others Downlink ports. Some of the Downlink ports are PoE-capable, details shown as Table 1-1.

TEG1009P PoE-capable Ports(1~4) ● IEEE 802.3af-compliant and IEEE 802.3at-compatible; ● Up to 4 IEEE 802.3af-compliant (15.4W) or 2 IEEE 802.3at-compatible (30W) PDs (powered devices) can be accessed simultaneously.
TEG1009P-EI PoE-capable Ports (1~8) ● IEEE 802.3af-compliant and IEEE 802.3at-compatible; ● Up to 8 IEEE 802.3af-compliant (15.4W) or 4 IEEE 802.3at-compatible (30W) PDs can be accessed simultaneously.
TEG1309P PoE-capable Ports (1~4) ● IEEE 802.3af-compliant and IEEE 802.3at-compatible; ● Up to 4 IEEE 802.3af-compliant (15.4W) or 4 IEEE 802.3at-compatible (30W) PDs can be accessed simultaneously.

Table 1-1 PoE-capable RJ45 Ports

Tips:

Ethernet cables (Pair 1, Pair 2, Pair 3 and Pair 6) are employed for PoE power supply. You're recommended to use Cat.5 or higher UTP/STP cables. When you use Cat.5e and Cat.6 twisted cables, the PoE power supply distance is up to 150 meters.

(2) LEDs

You can check link status and activity of the switch via LEDs. Table 1-2 describes the LED status.

LED	Color	Status	Description
POWER	Green	Solid	The switch is powered on.
		Off	The switch is powered off or its power supply is improper.
PoE-MAX	Green	Solid	PoE consumption exceeds the warning power. No more PDs can be powered on.
		Off	PoE consumption is proper.
Link/Act (RJ45 with LEDs)	Orange	Solid	Proper network connection on the corresponding RJ45 port.
		Blinking	Traffic is being transmitted on the corresponding RJ45 port.
		Off	No network connection is on the corresponding RJ45 port.
PoE (RJ45 with LEDs)	Green	Solid	PDs are connected to the corresponding ports, and powered on properly.
		Off	No PDs are connected to the corresponding ports or powered on.

Table 1-2 LED status

Note:

TEG1009P/TEG1309P: Green LEDs of the RJ45 ports (1~4) are PoE LEDs.

TEG1009P-EI: Green LEDs of the RJ45 ports (1~8) are PoE LEDs.

Other green LEDs of the RJ45 ports keep OFF, with NO FUNCTION.

■ Back Panel

The back panel mainly consists of a grounding terminal for lightning protection and a power socket, shown as Figure 1-2.

Figure 1-2 Back Panel

(1) Kensington Security Slot

Use an anti-theft lock to attach the switch to a fixed object against theft.

(2) Grounding Terminal

Use a wire to connect the terminal to the ground for lightning protection. For details, please refer to 2.5 Connect to Protective Grounding Cable (Page 9).

(3) Power Input Jack

Please plug the power adapter to this input jack to supply power for the switch.

Note:

Please use the provided power supply. The power adapter of the switch applies AC 100-240V~50/60Hz.

Chapter 2 Installation

2.1 Safety Precautions

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

- 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;
- Use only the power supply provided with the switch;
- Make sure that the supply voltage matches the specifications identified on the power adapter of the switch;
- Ensure the vent hole is well ventilated and unblocked;
- Do not open or remove the housing of the switch.
- Before cleaning the switch, power off the power supply. Do not clean it by the waterish cloth, and never use any other liquid cleaning method.
- Keep the switch away from nearest source of high voltage, such as power lines, electric lamps, grids, etc.

Note:

There is a Tenda unpacking seal on one of the screws. If you want the local reseller maintain your device, the seal should be kept unbroken. Before you open the device's housing, please contact the local reseller to get permission, or you have to be responsible for the result that the device cannot be maintained because of unpermitted operation.

2.2 Site Requirements

■ Operating Temperature and Humidity

Requirements of temperature and humidity to the switch are shown as Table 2-1.

Environment	Temperature	Humidity
Operating	-10ºC ~ 45ºC	10%~90% RH (Non-condensing)
Storage	-40ºC ~ 70ºC	5% ~ 90% RH (Non-condensing)

Table 2-1 Temperature and Humidity Requirement

■ Cleanness

To avoid the effect of static electricity on the operation of the switch, please attach much importance to the followings.

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

■ Lightning Protection

To avoid the damage of electronic devices made by the extremely high voltage current produced when lightning occurs, please take the following lightning protection measures.

- Ensure the rack and the switch's ground terminal are well earthed;
- Make sure the power outlet has a good contact with the ground;
- Keep a reasonable cabling system to avoid induced lightning;
- Use the signal SPD (Surge Protective Device) when wiring outdoor.

■ Installation Site

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

- Make sure that the rack or workbench is sturdy enough to support the switch and well-grounded;
- Make sure that the switch has a good ventilation system. The device should be left 10cm of equipment clearance for ventilation;
- Do not place heavy objects on the switch;

- If the switches need to be used in stacked, the vertical distance between neighboring ones cannot be less than 1.5 cm.

2.3 Installation Tools

- Phillips Screwdriver
- ESD-preventive Wrist Wrap
- Network Cables (Option)

2.4 Production Installation

■ Desktop Installation

Step 1: Set the bottom of the switch up on a flat and stable desktop;

Step 2: Paste four cushions in the corresponding concave places at the bottom;

Step 3: Turn over the switch and place it face up on the workbench.

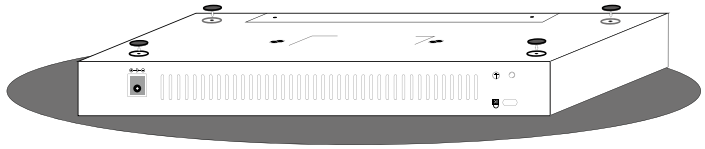

Figure 2-1 Desktop Installation

■ Magnet Installation

Step 1: Attract 4 magnets into the corresponding round grooves on the bottom at each corner of the switch's housing;

Step 2: Use screws to secure the magnets to the switch's housing, shown as Figure 2-2 (a);

Step 3: Press the switch (installed with magnets) in a proper way on a stable surface you select, shown as Figure 2-2 (b). When installing, be careful with your fingers.

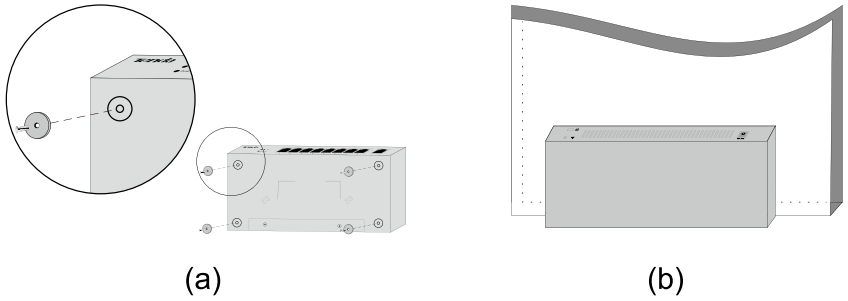

Figure 2-2 Magnet Installation

Note:

- Select the installation surface carefully. If the surface is not proper, the reliability of this installation will be influenced.
- Too high installation position or vibration might cause a fall leading to switch damage or personal injury.
- When installation is finished, don't move the switch very often to avoid surface coating damage.
- To make it cable more easily, please place the switch bottom up when you mount it vertically and pay attention to the weight of the installed cables to avoid a fall.
- Keep magnets away from objects such as the floppy disk, magnetic card, computer or computer monitor, which are easy to be magnetized. Otherwise the device malfunctions will happen.

■ Wall Installation

Step 1: Punch 2 holes with a diameter of 5mm on the wall. The distance between the 2 holes is 110mm, and the line through them should keep horizontal, as illustrated in Figure 2-3;

Step 2: Install a conductor pipe inside the board hole; and flush the edge of the conductor pipe with the wall surface;

Step 3: Screw the bolts into the conductor pipe. Distance between the inside surface of the screw header and the edge of the conductor pipe should not be less than 2.5mm, to make sure that the device can be hung on the bolt tightly;

Step 4: Align two wall type holes at the bottom of the device with the screw, and hang the device on it.

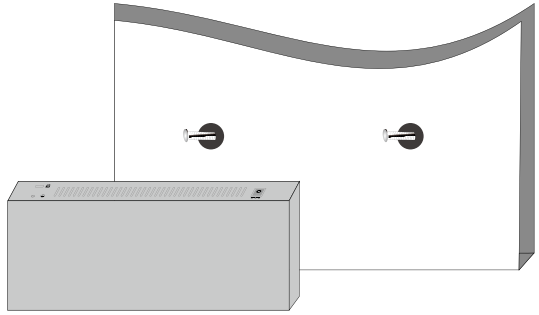

Figure 2-3 Wall Installation

2.5 Connect to Protective Grounding Cable

Proper connection of the protective grounding cable is not only for quickly releasing the overvoltage and overcurrent resulting from lightning, but also necessary for protecting your body security.

■ With Grounding Bar

Connect one end of the protective grounding cable to the binding post on the grounding bar and fix the screws.

Figure 2-4 Install with grounding bar

(1) AC Power Input Jack (2) Binding Post
(3) Protective Grounding Cable (4) Grounding Bar

Note:

The switch's grounding cable should be connected to the engineering land in the IT room. Water hoses and lightning rods are not proper for grounding.

■ **Without Grounding Bar**

1. With mud land nearby and allowed to bury grounding bar.

Bury an angle iron or steel pipe (≥0.5m) into the mud land. The protective grounding cable should be welded to the angle iron or steel pipe and the welding point should be embalmed.

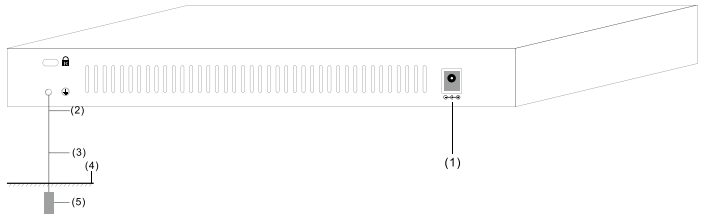

Figure 2-5 Install with a ground conductor buried

(1) AC Power Input Jack (2) Binding Post (3) Protective Grounding Cable
(4) Earth (5) Angle Iron

2. Not allowed to bury grounding bar.

If not allowed to bury the grounding bar, you can directly connect the switch to the grounding bar through the power cord. Ensure that the provided adapter you use has a triplex plug, and the power cord in the switchgear room or beside the AC power supply transformer is well-grounded.

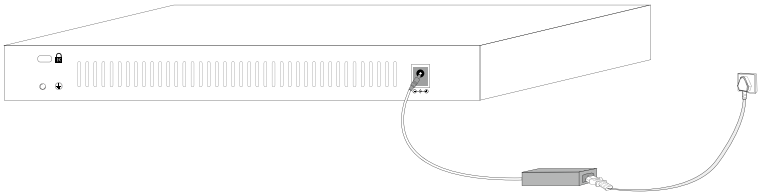

Figure 2-6 Install with the grounded power cord

Chapter 3 Hardware Connection

Connection Procedures & Check

Step 1: Use an Ethernet cable to connect one upstream network device (such as another switch or a router) to the Uplink port on the switch, shown as Figure 3-1.

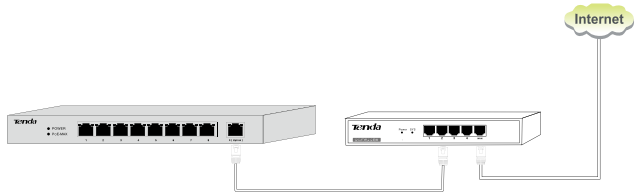

Figure 3-1 Connect an upstream network device

Step 2: Use other Ethernet cables to connect downstream network devices to the Downlink ports. PoE-capable ports can access PDs such as an AP, an IP phone, an IP camera, shown as Figure 3-2.

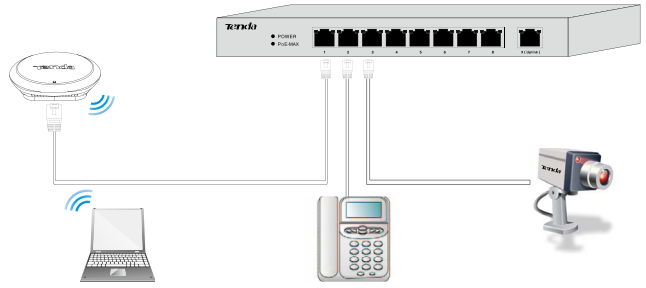

Figure 3-2 Connect standard PD devices

Note:

If cables on ports are running outdoors, please connect the network signal lightning arrester.

Step 3: Use the power adapter provided in the product package to supply power for the switch, shown as Figure 3-3.

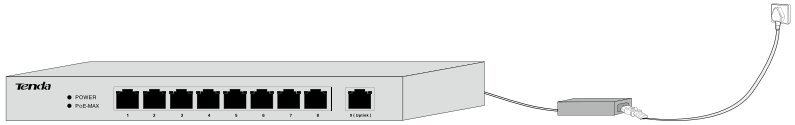

Figure 3-3 Connect to power supply

Step 4: After powered up, the switch begins auto-initialization. Check the LED indicators, and they will respond as follows:

- All the functional LEDs will flash momentarily for one second and then be off, which represents a resetting of the system.
- The POWER LED indicator is lit.

■ 约定

本手册适用产品型号：TEG1009P、TEG1009P-EI、TEG1309P。

■ 安装手册简介

第 1 章 产品介绍 介绍交换机的特点及其外观。
第 2 章 设备安装 介绍交换机的硬件安装方法及其注意事项。
第 3 章 物理连线 介绍交换机与其它设备之间的连接和注意事项。

■ 技术支持

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第 1 章 产品介绍

1.1 产品概述

■ 产品简介

千兆非网管型交换机可为您提供高性能、低成本、易用、无缝的将网络速率提升至 1000Mbps 的解决方案。支持 10/100/1000M 自适应，让您体验千兆网络的同时，保护现有网络投资；即插即用，无需配置；指示灯状态显示，可为您迅速的诊断网络故障；具备 PoE 远程供电功能，可解决 Wireless LAN AP、IP Phone、IP Camera 布线复杂，成本高，维护困难的问题。

■ 主要特性

- 9 个自适应 10/100/1000M RJ45 口，其中 1 个为上联口；
- 实现动态 PoE 供电，单端口最大输出功率 30W；
- TEG1009P：1-4 口支持 IEEE 802.3af（15.4W，最多同时接入 4 口），并兼容 IEEE 802.3at（30W，最多同时接入 2 口）；
- TEG1009P-EI：1-8 口支持 IEEE 802.3af（15.4W，最多同时接入 8 口），并兼容 IEEE 802.3at（30W，最多同时接入 4 口）；
- TEG1309P：1-4 口支持 IEEE 802.3af（15.4W，最多同时接入 4 口），并兼容 IEEE 802.3at（30W，最多同时接入 4 口）；

1.2 包装清单

打开包装，检查组件。如果发现有损坏或配件短缺，请持原包装及配件与经销商联系更换。

- 交换机 1 台
- 电源 1 套
- 安装手册 1 本
- 挂壁螺丝 2 套
- 吸铁石 4 颗
- 脚垫 4 个
- 产品目录 1 张

1.3 产品外观

■ 前面板

前面板主要由 RJ45 端口和指示灯组成。如图 1-1 所示。

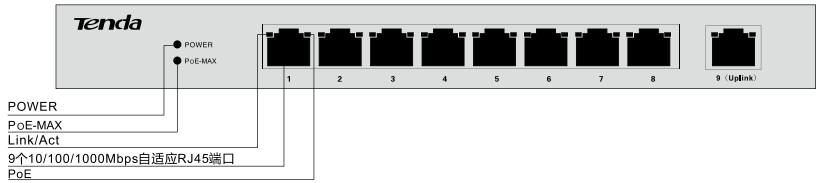

图 1-1 前面板

RJ45 端口

9 个 10/100/1000M RJ45 端口，1 个为上联口，其它 RJ45 口为下联口。部分下联口带 PoE 功能，具体说明如表 1-1。

产品型号	带 PoE 功能的接口	说明
TEG1009P	1-4	兼容 IEEE 802.3af 和 IEEE 802.3at，最多同时接入 4 个 IEEE 802.3af 或 2 个 IEEE 802.3at 标准的受电设备。
TEG1009P-EI	1-8	兼容 IEEE 802.3af 和 IEEE 802.3at，最多同时接入 8 个 IEEE 802.3af 或 4 个 IEEE 802.3at 标准的受电设备。
TEG1309P	1-4	兼容 IEEE 802.3af 和 IEEE 802.3at，最多同时接入 4 个 IEEE 802.3af 或 4 个 IEEE 802.3at 标准的受电设备。

表 1-1 带 PoE 功能的 RJ45 端口说明

提示：

PoE 供电采用网线的 1、2，3、6 数据线供电，网线建议采用 5 类或 5 类以上 UTP/STP。采用超 5 类、6 类双绞线时，PoE 供电距离最长可达 150 米。

指示灯

您可通过指示灯，查看设备的工作状态。指示灯说明参见表 1-2。

指示灯名称	颜色	状态	说明
POWER	绿色	常亮	设备供电正常
		不亮	设备未通电或供电异常
PoE-MAX	绿色	常亮	PoE 功耗超出预警功率，若继续接入受电设备，将不再对接入的受电设备供电
		不亮	PoE 功耗正常
Link/Act（RJ45 带灯）	橙色	常亮	对应的 RJ45 口网络连接正常
		闪烁	对应的 RJ45 口正在进行数据传输
		不亮	对应的 RJ45 口无网络连接
PoE（RJ45 带灯）	绿色	常亮	有受电设备与之连通，并供电正常
		不亮	无受电设备与之连通或无供电

表 1-2 指示灯工作状态说明

注意：

TEG1009P/TEG1309P 的 1-4 RJ45 端口的绿色带灯为 PoE 灯，TEG1009P-EI 的 1-8 RJ45 端口的绿色带灯为 PoE 灯；其余 RJ45 端口的绿色带灯无意义（永远保持不亮）。

■ 后面板

后面板主要由防盗锁孔、防雷接地柱和电源接口组成。如图 1-2 所示。

图 1-2 后面板

防盗锁孔

使用防盗锁（需用户自备）将设备与固定物体锁定，起到一定防盗作用。

防雷接地柱

请使用导线接地，以防雷击。连接保护地线的方法请参考 *2.4 连接保护地线*（第 20 页）。

电源接口

用于连接电源适配器给设备供电。

注意：

请使用原装电源。设备接入电源为 100-240V~50/60Hz 的交流电源。

第 2 章 设备安装

2.1 安装注意事项

为避免使用不当造成设备损坏及人身伤害，请遵从以下注意事项。

■ 安全措施

- 安装过程中电源保持关闭状态；
- 佩戴防静电手腕带进行安装，确保防静电手腕带与皮肤接触良好；
- 使用产品包装盒内的电源给设备供电；
- 确保输入电压范围与电源适配器上标明的输入电压范围相符；
- 确保设备散热孔通风良好；
- 不要打开或拆卸设备机壳；
- 清洁设备时，请切断电源。请勿使用湿抹布清洁，也不要使用任何液体清洁方法；
- 设备远离电力线、电灯、电网附近或任何有可能接触强电电网的地方。

注意：

设备机壳的一个安装螺丝上封有 Tenda 公司的防拆封条，代理商对设备进行维护时，要求所维护设备的封条保持完好。如果用户需要打开设备机壳，请先与本地代理商联系，获得允许；否则，由于擅自操作导致设备无法维护，将由用户本人负责。

■ 安装环境要求

温 / 湿度要求

设备对温度和湿度的要求见下表 2-1。

环境描述	温度	湿度
工作环境	-10℃ ~ 45℃	10% ~ 90%RH（无凝结）
存储环境	-40℃ ~ 70℃	5%~90% RH（无凝结）

表 2-1 温度和湿度要求

洁净度要求

为避免静电影响设备正常工作，请注意：

- 设备定期除尘，并保持室内空气清洁；
- 设备接地良好，确保静电顺利转移。

防雷要求

为避免雷电产生的强大瞬间电流破坏设备，请采取以下防雷措施：

- 确认机架和设备接地端子均与大地接触良好；
- 确认电源插座与大地接触良好；
- 合理布线，避免内部感应雷；
- 室外布线时，建议使用信号防雷器。

安装台要求

无论设备安装在机架内或其他工作台上，请注意以下事项：

- 确认机架或工作台牢固并接地良好；
- 保持良好的通风，设备四周留出 10 厘米的散热空间；
- 不要在设备上放置重物；
- 需要叠放使用时，设备之间的垂直距离不能小于 1.5 厘米。

2.2 准备安装工具

- 十字螺丝刀
- 防静电手腕
- 网线（可选）

2.3 安装设备

A、桌面安装方式

步骤 1：将交换机底部朝上放置于足够大且平稳的桌面上；

步骤 2：将 4 个脚垫粘贴在机壳底部四角对应的圆形凹槽中，如图 2-1 所示；

步骤 3：翻转交换机，让其正面朝上放置于桌面即可。

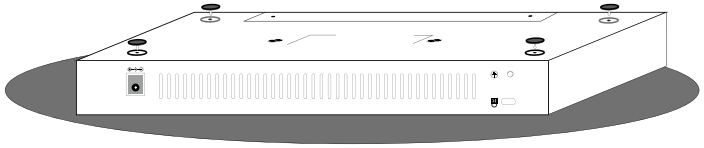

图 2-1 桌面安装示意图

B、磁吸安装方式

步骤 1：将 4 颗吸铁石吸在机壳底部四角对应的圆形凹槽区域；

步骤 2：使用螺丝将吸铁石和机壳拧紧在一起，如图 2-2(a) 所示；

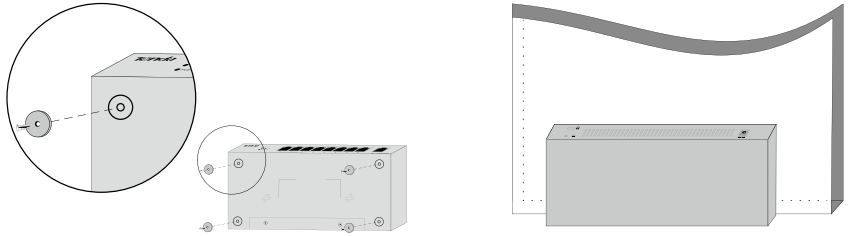

图 2-2 磁吸安装示意图

步骤 3：将安装了吸铁石的设备吸附在用户选定的稳定安装位置即可，如图 2-2(b) 所示。（注意不要夹到手指）

注意：

- 请慎重选择安装表面，如果安装表面状态不佳，可能影响磁吸安装的可靠性。
- 避免安装位置过高或存在震动、冲击及不稳定造成设备脱落，以致人身伤害或设备损坏。
- 安装完成后，请勿人为往复推动设备，以免设备表面涂层损坏。
- 垂直安装时，请将设备前面板朝下以方便走线，并注意线缆的重量，避免设备脱落。
- 请勿将吸铁石与软盘、磁卡、计算机、显示器等易受磁场影响的物体接近，否则可能造成该物体故障。

C、挂壁安装方式

步骤 1：在墙上打 2 个直径 5 毫米左右的孔，间距为 110 毫米，两孔连线保持水平，如图 2-3 所示；

步骤 2：将安装导管置入孔内，并使安装导管外沿与墙面齐平；

步骤 3：将螺丝拧入安装导管，螺丝头内侧与安装导管外沿距离不得小于 2.5 毫米，以确保设备能够稳固的挂在螺丝上；

步骤 4：设备底部的 2 个挂壁孔对准螺丝，将其挂在螺丝上。

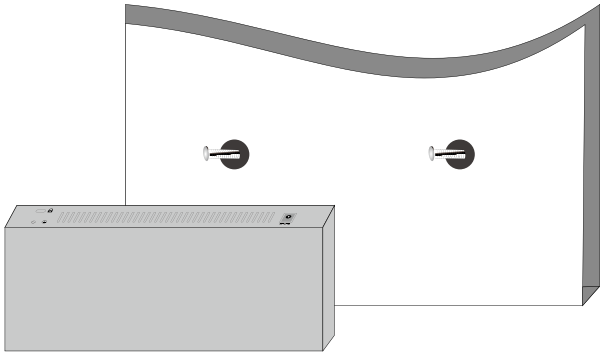

图 2-3 墙壁安装示意图

2.4 连接保护地线

连接保护地线不仅是为了尽快释放掉设备因雷击而感应的过电压和过电流，也是保障人身安全的必要措施。

A、安装环境中有接地排

将保护接地电缆一端接到设备接地端子，另一端接到接地排的接线柱，拧紧固定螺母。

图 2-4 机房有接地排时接地安装简图

（1）交流电源输入　（2）接地端子　（3）保护接地电缆　（4）机房接地排

注意：

设备的接地线应连接到机房的工程接地，消防水管和大楼的避雷针接地都不是正确的接地。

B、安装环境中无接地排

如果附近有泥地并且允许埋设接地体，则采用长度不小于 0.5 米的角钢或钢管，直接打入地下。此时，保护接地电缆应和角钢（或钢管）采用电焊连接，焊接点应进行防腐处理。

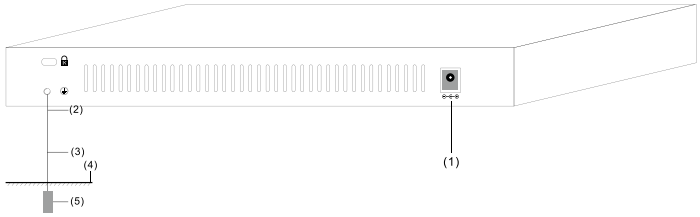

图 2-5 机房附近允许埋设接地体时接地安装简图

（1）交流电源输入　（2）接地端子　（3）保护接地电缆　（4）大地　（5）角钢

如果不允许埋设接地体，可直接通过电源线接地。但前提是设备配套的电源适配器的插头是 3 插头的，且电源线在配电室或交流供电变压器侧良好接地。

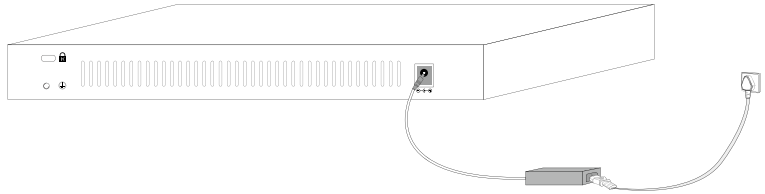

图 2-6 利用已接地的电源线进行接地保护

第 3 章 物理连线

步骤 1：用网线连接交换机的上联口和上级网络设备（交换机、路由器等），如图 3-1 所示。

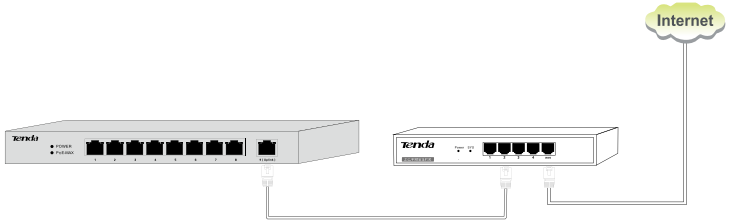

图 3-1 连接上级网络设备

步骤 2：用网线连接交换机的下联口和下级网络设备（支持 PoE 供电的端口可接 AP、IP 电话和网络摄像头等受电设备）。如图 3-2 所示。

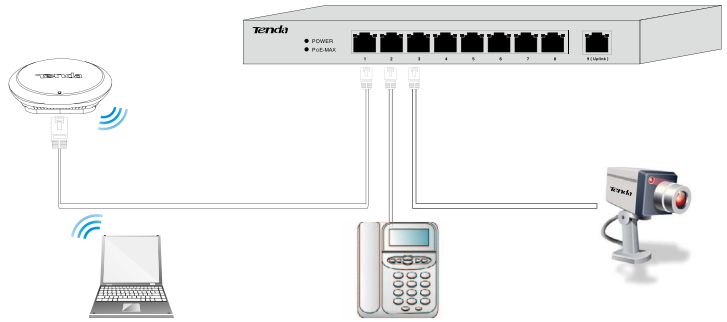

图 3-2 连接标准受电设备

注意：

如果接口线缆有室外走线的情况，请进行网口防雷器连接。

步骤 3：使用产品包装盒内的电源适配器给交换机供电。如图 3-3 所示。

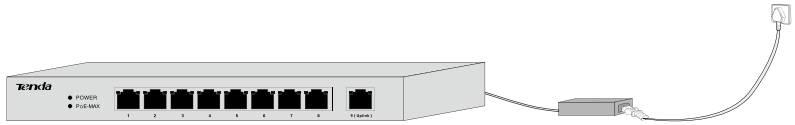

图 3-3 连接电源

步骤 4：上电后，交换机将自动进行初始化，检查指示灯，应出现下列情况：

- 所有有意义的指示灯全亮一下后熄灭，表示系统已经复位；
- POWER 指示灯点亮。

Appendix / 附录

A. Technical Specifications

Item	Specification
Protocol & Standard	IEEE 802.3i 10Base-T Ethernet IEEE 802.3u 100Base-Tx Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3x Flow Control IEEE 802.3af IEEE 802.3at
Power Supply Support	**TEG1009P:** ● Power of the switch: 63.75W maximum. ● Total power of the PoE power supply: 57.81W maximum (ports 1~4, output power per port: 30W maximum). ● 51VDC, 1.25A power output; plug is localized to country of sale.
	TEG1009P-EI: ● Power of the switch: 127.5W maximum. ● Total power of the PoE power supply: 121.22W maximum (ports 1~8, output power per port: 30W maximum). ● 51VDC, 2.5A power output; plug is localized to country of sale.
	TEG1309P: ● Power of the switch: 127.5W maximum. ● Total power of the PoE power supply: 121.26W maximum (ports 1~4, output power per port: 30W maximum). ● 51VDC, 2.5A power output; plug is localized to country of sale.
LEDs	POWER LED, PoE LED, PoE-MAX LED, Link/Act LED
Network Medium	Cat.5 (≤100m) or Cat.5 higher UTP/STP cables (≤150m) (recommended)
Operating Temperature	-10℃ ~ 45℃
Storage Temperature	-40℃ ~ 70℃
Operating Humidity	10% ~ 90% RH non-condensing
Storage Humidity	5% ~ 90% RH non-condensing
Dimension	235mmx103mmx27mm

A. 技术参数规格

项目	规格
支持的协议和标准	IEEE 802.3i 10Base-T 以太网 IEEE 802.3u 100Base-Tx 快速以太网 IEEE 802.3ab 1000Base-T 千兆以太网 IEEE 802.3x 流量控制 IEEE 802.3af IEEE 802.3at
电源支持	**TEG1009P：** ● 交换机最大功率：63.75W ● PoE 电源最大功率：57.81W（端口 1-4，单端口最大输出功率 30W） ● 51VDC，1.25A 电源输出（各个国家采用定制电源插头）
	TEG1009P-EI： ● 交换机最大功率：127.5W ● PoE 电源最大功率：121.22W（端口 1-8，单端口最大输出功率 30W） ● 51VDC，2.5A 电源输出（各个国家采用定制电源插头）
	TEG1309P： ● 交换机最大功率：127.5W ● PoE 电源最大功率：121.26W（端口 1-4，单端口最大输出功率 30W） ● 51VDC，2.5A 电源输出（各个国家采用定制电源插头）
指示灯	电源灯、PoE 灯、PoE-MAX 灯、Link/Act 灯
网络介质	建议 5 类（≤ 100 米）或 5 类以上 UTP/STP(≤ 150 米
工作温度	-10℃ ~ 45℃
存储温度	-40℃ ~ 70℃
工作湿度	10% ~ 90%RH（无凝结）
存储湿度	5% ~ 90% RH（无凝结）
外形尺寸	235 毫米 x103 毫米 x27 毫米

B. Safety and Emission Statement

CE

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.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

FC

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 radiofrequency 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.

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

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

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

B. 产品有毒有害物质声明

部件名称	有毒有害物质或元素					
	铅（pb）	汞（Hg）	镉（Cd）	六价铬（Cr6+）	多溴联苯（PBB）	多溴二苯醚（PBDE）
结构件	×	○	○	○	○	○
单板/电路模块	×	○	○	○	○	○
电源适配器	×	○	○	○	○	○
线缆	×	○	○	○	○	○
连接器	×	○	○	○	○	○
附件	×	○	○	○	○	○

1. “○”表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。
2. “X”表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。
3. 由于中国限量标准中没有豁免条例，故标识为“X”并不一定表示为对人体有害。
4. 对生产制造的产品，可能包含这些欧洲豁免的物质。
5. 在所售产品中可能包含所有部件也可能不包含所有部件。

免责声明：

此为工业级产品，非用户端设备。在生活环境中，该设备可能会造成无线电干扰。在这种情况下，可能需要用户对干扰采取切实可行的措施。

C. 产品保修卡

感谢您购买 Tenda 产品，您在使用 Tenda 产品时将享有如下服务。

一、产品保换、保修承诺：

保修条款

产品类型	承诺政策	服务方式
主机	一年保换，两年保修	客户送修
电源	半年保换，一年保修	客户送修

说明：

1、“一年保换，二年保修”是指产品售出后的第一年为保换期，第二年为维修期；

2、如此产品停产，将更换性能相当的产品；

3、保换、保修的产品为良品；

4、经腾达保换、保修过的产品，保换、保修期仍然以原产品为准。

二、产品保换、保修内容：

保换、保修的范围仅限于产品主机和电源。其它配件不在保换保修范围内，若在购机后一周内配件有问题，可无偿保换。

若产品购买后的 15 天内出现设备性能问题，且外观无划伤，可在购买处更换产品。产品在安装或使用中出现问题，可先与腾达售后服务中心取得联系，由工程师电话里指导解决。通过沟通，确认是产品问题的，客户可到购买处更换同一型号或与该产品性能相当的良品，如客户无法联系到经销商时，可联系腾达售后服务中心获得保换、保修服务。但经腾达检测确认产品无故障的，将不予保换、保修。

如返修的电源有明显的硬物损伤、裂痕、断脚、严重变形，电源线有破损、断线、裸芯等现象则不予保修，用户可另行购买。

符合保修规定的产品，我公司将免费予以维修。

Tenda 产品实行全国范围联保。您在中华人民共和国境内（不包括港、澳、台地区）任何地方购买的产品，如果在使用过程中出现保修范围内的硬件故障，均可凭本产品的购机发票到腾达售后服务中心获得保换、保修服务。对不能提供购机发票的，按产品出厂日期向后顺延两个月作为保换、保修的起始日期。

三、有下列情况之一的，不属于保换、保修范围：

1、超过保换、保修期的；

2、封口标破损、私自涂改或无封口标的；

3、客户私自拆装或维修过的；

4、人为损坏，外壳有明显划痕，受损变形的；

5、在高温、高压、潮湿等不正常环境下安装使用造成故障的；

6、雷击、水灾、地震等自然灾害造成损坏的。

四、凡不在保换、保修范围内的产品，我公司可以提供有偿维修服务。有偿维修后的产品，同一性能问题将享受自修复之日起三个月内的免费保修期。

五、其它：

上述服务承诺仅适用于我公司在中国大陆地区售出的产品。对于产品在售出时另行约定了售后服务条款的，以腾达公司确认的合同为准。如果您在使用中有与产品相关的技术问题需要咨询时，欢迎拨打腾达免长途话费技术电话：4006622666，我们的工程师将为您提供专业解答，技术支持邮箱为 tenda@tenda.com.cn；您也可以登陆腾达官方网站：http://www.tenda.com.cn 获得产品操作问题的解决信息。

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六、维修记录表

维修日期	维修编号	维修记录	维修员签字

七、用户存根

为了维护您的权益，请您认真填写，并妥善保管，送修时请出示此存根。

产品	产品型号	
	序列号	
代理信息	经销商名称	
	联系电话	
	销售日期	
用户信息	用户姓名	
	通讯地址	
	联系电话	
	E-mail	