



Gigabit PoE Repeater

Quick Start Guide



See Far, Go Further

Preface

Applicable Models

This manual is applicable to Gigabit PoE Repeater.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 Note	Provides additional information to emphasize or supplement important points of the main text.
 Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

1 Introduction

1.1 Product Introduction

The Gigabit PoE Repeater (0505P) features one gigabit PoE IN port and four gigabit PoE OUT ports. The device is plug-and-play, requiring no external power supply. With its uplink PoE IN port connected to a gigabit PoE switch and downlink PoE OUT ports connected to network cameras (IPCs), this PoE repeater can achieve simultaneous gigabit data transmission and PoE power supply, as well as up to 200-meter transmission distance (uplink+downlink).

1.2 Packing List

Please check if the package is damaged first. If the package is intact, unpack it and check whether the accessories provided with the product are available by referring to the packing list. Then, you can continue to install the device.

Table 1-1 Packing List

Accessory	Quantity
Gigabit PoE Repeater	× 1
Quick Start Guide	× 1
Regulatory Compliance and Safety Information	× 1

1.3 Appearance

Device appearances vary with different models. The actual device prevails.

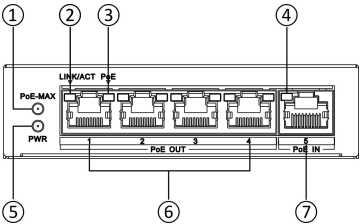


Figure 1-1 Front Panel

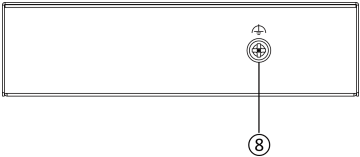


Figure 1-2 Rear Panel

Table 1-2 Port/Indicator Description

No.	Indicator/Port	Description
①	PoE-MAX Indicator	● Solid on: The output power of the switch is about to reach or has reached the upper limit. The

No.	Indicator/Port	Description
		power supply may be abnormal if more devices are connected. ● Unlit: The switch supplies power to a powered device (PD) normally and its output power does not reach the upper limit.  Note The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.
②	LINK/ACT Indicator	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
③	PoE Indicator	● Solid on: The switch supplies power to a PD normally. ● Unlit: The switch is disconnected from a PD or power supply is abnormal.
④	LINK/ACT Indicator	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
⑤	PWR Indicator	● Solid on: The switch is powered on normally. ● Unlit: No power supply is connected or power supply is abnormal.
⑥	PoE OUT Port	Gigabit PoE OUT port, used for connection to an IPC, switch, or PoE repeater, extending the network transmission distance.
⑦	PoE IN Port	Gigabit PoE IN port, used for connection to a power sourcing equipment (PSE) (such as a PoE switch) that meets the PoE repeater's power supply standards.
⑧	Grounding Terminal	Used for connection to a grounding cable to protect the switch from lightning.

2 Typical Application

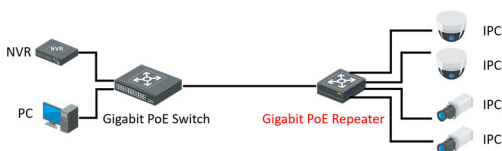


Figure 2-1 Typical Application

3 Installation

Please select an appropriate installation method according to the actual needs.

Before You Start

- Ensure that the desktop or wall is stable and firm enough.
- Keep the room well-ventilated. Leave at least 10 cm heat dissipation space around the device.

3.1 Desktop Placement

Place the device on the desk.

3.2 Wall Mounting

Steps

1. Check the distance between the two hanging holes on the rear cover of the device.
2. Insert two self-prepared M4 screws into the wall.

Note

- You are advised to connect the ports of the device before hanging it. For details, see [5 Wiring](#).
- The load-bearing capacity of the wall should be three times more than the weight of the device.
- Ensure that the distance between the two screws equals to the distance between the two hanging holes.
- Set aside at least 4 mm of the screw bodies outside the wall.

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3. Align the hanging holes with the screws, and hang the device on the screws.

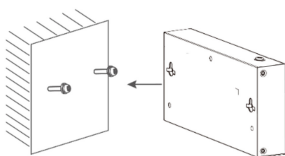


Figure 3-1 Wall Mounting

4 Grounding

4.1 Connect Grounding Cable

Grounding is used to quickly release overvoltage and overcurrent induced by lightning on the device, and to protect personal safety. Select an appropriate grounding method according to the installation conditions.

With Grounding Bar

If a grounding bar is available at the installation site, follow the steps below.

Steps

1. Connect one end of the grounding cable to the binding post on the grounding bar.
2. Connect the other end of the grounding cable to the grounding terminal of the device and tighten the screw.

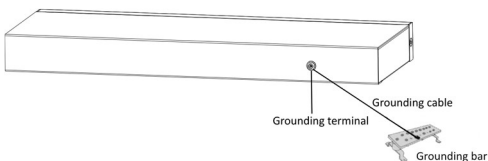


Figure 4-1 Grounding with Grounding Bar

Without Grounding Bar

If there is no grounding bar but the earth is nearby and the grounding body is allowed to be buried, follow the steps below.

Steps

1. Bury an angle steel or steel pipe (≥ 0.5 m) into the earth.
2. Weld one end of the grounding cable to the angle steel or steel pipe and embalm the welding point via electroplating or coating.
3. Connect the other end of the grounding cable to the grounding terminal.

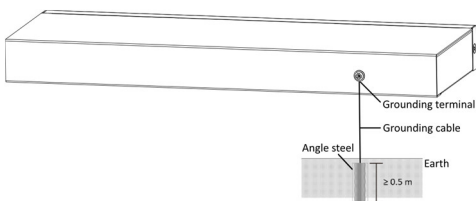


Figure 4-2 Grounding with Angle Steel

5 Wiring

Use Ethernet cables to connect the PoE IN port of the PoE repeater to the RJ45 port of a PSE (e.g., PoE switch), and the PoE OUT port of the PoE repeater to the RJ45 port of a PD (e.g., IPC).

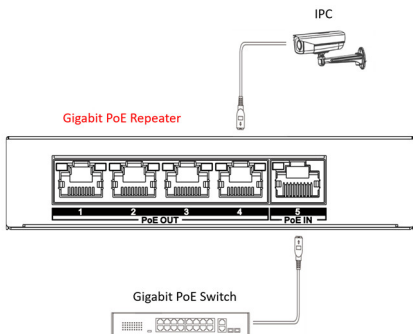


Figure 5-1 RJ45 Port Connection