

PT-PCGI-AT

Gigabit PoE to USB-C Adapter

Product Technical Manual



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Statement

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The product specifications and technical content mentioned in this manual are for reference only. Updates may occur without prior notice. Unless otherwise agreed, this manual is intended as a usage guide and does not constitute any form of warranty.

Technical Manual Introduction

This manual is the technical manual for the PT-PCGI-AT product. It mainly introduces the hardware features, installation methods, and related precautions for this product. The product form of other models may differ, and the product images provided are for illustrative purposes only. Please refer to the actual product.

This manual includes the following chapters:

1. Product Introduction. Briefly describes the basic functional features of the PT-PCGI-AT and introduces the product appearance and applications.
2. Installation Preparation. Introduces the preparatory work and precautions before installing the product.
3. Introduces the installation method of the product.

For Whom

This manual is intended for:
Network Engineers
Network Administrators

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1. Introduction

1.1 Introduction

- The PT-PCGI-AT is an indoor PoE to USB-C adapter. It receives power and data from an IEEE 802.3at PoE power supply or PoE switch and provides power and network connectivity to USB-C devices via Power Delivery (PD).
- The PT-PCGI-AT features a black metal casing design, making it suitable for both portable desktop use and fixed open use. The device accepts an input voltage of up to 57V and provides a maximum output of 23W of power and 10/100/1000Mbps network data. The PoE connection supports a maximum distance of 100 meters using Cat5e/Cat6 cables.
- The PT-PCGI-AT is compatible with most tablets, smartphones (Android), and newer Apple phones (USB-C interface).

1.2 Appearance

- Front View

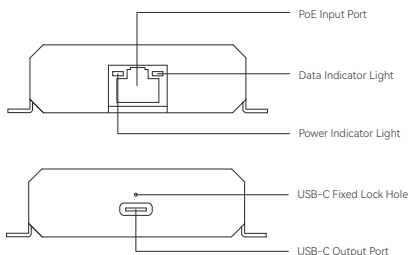


Figure 1-1 Front View

- Top View

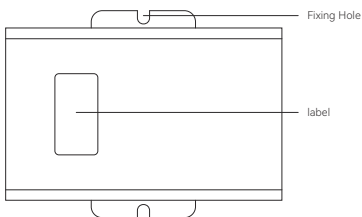


Figure 1-2 Top View

- Side View



Figure 1-3 Side View

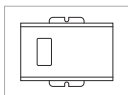
1.3 Product Technical Parameters

Parameter	Description
Input	44-57Vdc PoE Power Supply / Switch IEEE 802.3at
Input Wire Sequence	4/5(+),7/8(-) or 3/6(+),1/2(-)
Output	5V/2.6A、9V/1.75A、12V/1.45A、15V/1.37A、20V/1.15A
USB Standard	USB 3.0
Network Protocol	IEEE802.3 i/u/ab
Transmission Rate	10/100/1000Mbps
Operating Temperature	-20°C to 55°C
Operating Humidity	20% to 80%, non-condensing
Operating Altitude	2000 meters
Storage Temperature	-20°C to 70°C
Storage Humidity	10% to 90%, non-condensing
IP Rating	IP40
Dimensions	90.8mm X 65.4mm X 19.6mm (125g)

2. Installation Preparation

2.1 Required Items for Installation

The following items are required for installation and are included in the product package:



PT-PCGI-AT



Instructions

2.2 Preparation of Installation Tools

The following tools may be required for installation:

- Level
- Marker
- Knife
- Wire Stripper
- Network Cable Crimper
- Impact Drill and Drill Bits
- Rubber Hammer
- Phillips Screwdriver
- Wrench
- Ladder

These tools need to be prepared by the user.

2.3 Equipment Inspection

Before installation, connect the device to ensure it functions properly, as shown in Figure 2-1.



Note:

Please use Cat5e or higher PoE cables to connect this product.

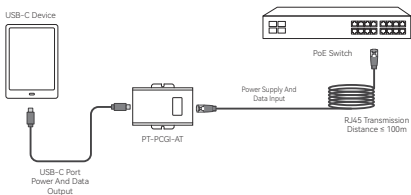


Figure 2-1 Schematic diagram of connected devices

Note:



- For 100Base-TX Ethernet, it is recommended to use Cat5 or higher UTP/STP cables.
- For 100Base-TX Ethernet, it is recommended to use Cat5 or higher UTP/STP cables.

2.4 Precautions

- 1.This device is for indoor use only.
- 2.For the best experience, use Cat5e or higher PoE cables.
- 3.The length of the PoE cable connected to the product should not exceed 100 meters.
- 4.Prolonged use may cause battery swelling or reduced battery capacity in some devices. Avoid prolonged charging when using this product.
- 5.For the best experience, use USB 3.0 or higher standard products for connection.
- 6.If fixed installation is required, use metal or wall surfaces. Do not use wooden backboards to avoid fire risks.
- 7.If a fixed USB-C port is needed, purchase a USB-C cable with a locking mechanism.

3. Product Installation

This product is primarily designed for desktop placement but can also be fixed for installation.

3.1 Fixed Installation

Fixed installation ensures stable operation.

(1) Drill holes at the selected installation location and secure the product using installation screws, as shown in Figure 3-1.

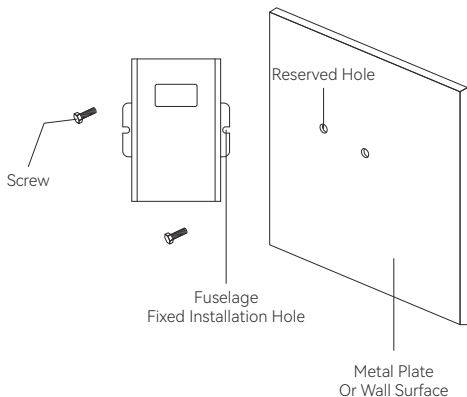


Figure 3-1 Fixed Installation Diagram

3.2 Fixed Installation

After installation, perform the following checks:

- Ensure the connected device is functioning properly.
- Verify that the network cable is correctly connected.

When this product reaches the end of its life or cannot be repaired, do not discard it randomly. Please hand it over to a qualified waste electrical and electronic equipment (WEEE) processing company. For proper disposal methods, refer to national or local regulations on WEEE disposal.

Qualification Card

PASS