PT-PCGI-BT
Gigabit PoE to USB-C Adapter

Quick Installation Guide

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PoE System

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Please do not dispose of the old product in your general household waste bin.

The symbol indicates that the product should notbe discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.

Overview

The installation Guide for PT-PCGI-BT and mainly introduces the hardware specification, installation methods, and precautions of the installation. There may be differences in the appearance and configuration from other models. All product images in this manual are for illustration purposes only and may differ from the actual product.

This manual includes the following chapters:

1. Product Introduction. Including the basic functions and specification of PT-PCGI-BT, as well as the product appearance and applications introduction.
2. Installation Introduction. Introducing the preparation work and precautions before installing the product.
3. Product Installation.

For whom

Network Engineers
Network Administrators
Field Technicians

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1. Introduction

1.1 Introduction

PT-PCGI-BT is a gigabit PoE to USB-C power and data all-in-one adapter. It allows for the power and data obtained from an IEEE802.3bt PoE injector or PoE switch to convert to USB-C PD. Support your USB-C device has stable wired network connectivity.

It is enclosed in a high-impact black metal housing with mounting holes on both sides for easy installation. Equipped with some thermal pads, good heat dissipation, suitable for industrial environments with the working temperature from -20 degrees Celsius to +50 degrees Celsius. A fixed hole on the top of the USB-C port to 100% fixed the USB-C cable connector not loose. The device supports a safe voltage input range of 44 to 57 Vdc and provides a maximum power output of 60W along with 10/100/1000Mbps network data. The effective distance for PoE transmission via Cat5e/Cat6 Ethernet cable is 100 meters.

It is compatible with most USB-C devices in the market. Such as tablets, laptops, cellphones, small PCs/Next Unit of Computing (NUC) interactive information kiosks, smart monitors, cameras, and so on. Many bands of USB-C devices were tested, such as Samsung Galaxy Tablets, Microsoft Surface, Apple iPads, Android tablets/smartphones, some Chrome books, and other USB-C-powered devices consuming up to 60W.

When the PoE power is disconnected, the unit of PT-PCGI-BT will get power from your USB-C device and can work as an Ethernet signal converter to continue supporting data transfer.
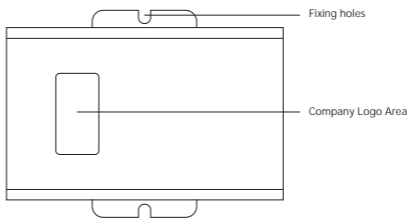
1.2 Appearance

● Front View

1-1 Front View

● Upper View

Fixing holes

Company Logo Area
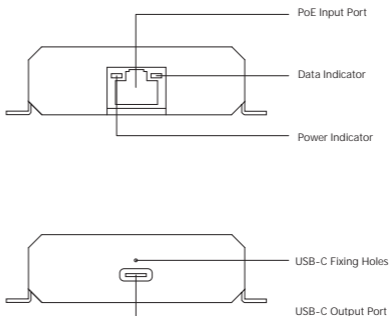
1-2 Upper View

● Side View

1-3 Side View

1.3 Specification

Items	Description
Input	44-57Vdc IEEE802.3bt
Power pins	4/5(+),7/8(-) & 3/6(+),1/2(-)
Output	5V/3A、9V/3A、12V/3A、15V/3A、20V/3A
USB Standard	USB 3.0
Network Protocol	IEEE802.3 i/u/ab
Data Speed	10/100/1000Mbps
Operating Temp.	-20℃ to 55℃
Operating Humidity	20% to 80%，non-condensation
Operating Altitude	Up to 2000 meters
Storage Temp.	-20℃ to 70℃
Storage Humidity	10% to 90%，non-condensation
IP Rated	IP40
Dimensions & NW	98.7mm X 73.72mm X 19mm（167g）

2. Installation Preparation
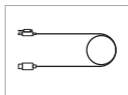
2.1 Package Contents

Open the box of the PT-PGCI-BT and carefully unpack it, the box should
contain the following items:
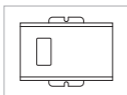
PT-PCGI-BT

Operating Manual

USB-C cable with
Locking screw

2.2 Installation Toolkits

These tools may be needed during equipment installation, and should be prepared by yourself: level ruler, marking pen, craft knife, wire stripper, network pliers, impact drill,different matching drilbits, rubber hammer, cross screwdriver, wrench, ladder, etc.
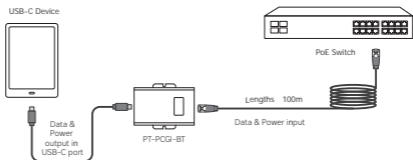
2.3 Inspection

Check if the powered device work normally after the connection.

Caution
Please use Cat5e or Cat6 cables to connect this product.

USB-C Device

PoE Switch

Data & Power output in USB-C port

PT-PCGI-BT

Lengths 100m

Data & Power input

2-1 Device Connection

Caution:

- We recommend to use Cat5e or above UTP/STP cables for 1000Base-T Ethernet.
- If you would like to have Gigabit data rates, the Ethernet connectivity should be at least 1000Mbps. Your USB-C device should support Gigabit. Your USB-C cable should be at least 3.0 standard and the cable should be at maximum 3 meters length.

2.4 Caution

1. This device is for indoor use only.

2. For optimal performance of this device, please use Cat 5e or Cat6 cables.

3. The total Ethernet cable length can not exceed 100 meters.

4. Disconnect the USB-C cable from your USB-C device if it does not need power charged. Because prolonged charging may cause your USB-C devices/Tablets to experience battery swelling or a decrease in battery storage capacity.

5. Please use USB 3.0 or higher standard products for connection. Since the practical speed is 35/40MB/s for USB2.0, the practical speed is 300MB/s for USB3.0, practical speed is 300MB/s for USB3.1 Gen 1, practical speed is 1.2GB/s for USB3.1 Gen 2. Low and high-standard USB-C devices connecting only apply the lower standard speed.

6. If this product needs to be installed in a fixed position, please choose a metal plate or wall for installation. Wooden backboards should not be used to prevent fire hazards.
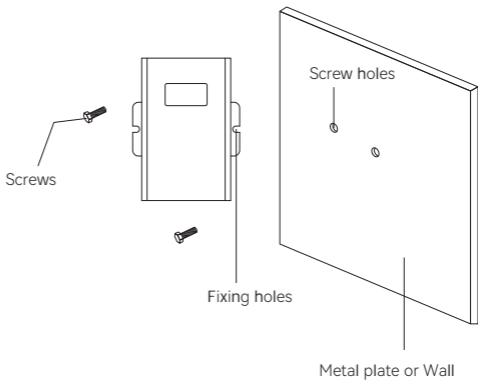
3. Installation

This product is primarily used desktop but can also be used for fixed installations.

3.1 Wall mounted Installation

This product is safe to use wall-mounted installation.

3.1.1 Fix the product with screws and tighten them into the screw holes. As showed in Figure 3-1.

Screw holes

Screws

Fixing holes

Metal plate or Wall

3-1 Wall-mounted Installation

3.2 Inspection

Inspect the installed equipment before putting it into operation
· Make sure the PD connected can work normal.
· Make sure the Ethernet cable connection is correct.

Qualification Card

PASS