

PoE to USB-C Adapter

# Datasheet

PT-PGC-AF



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## Declaration

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## Document History

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Version	Date	Notes
v1.0	2026/03/06	First Version Release

# 1 Product Introduction

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## 1.1 Product Positioning

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The PT-PGC-AF is indoor PoE to USB-C adapter. It supports the IEEE 802.3af standard, enabling them to receive power and data from PoE power sources or PoE switches, and provide PD power supply and network connectivity to USB-C devices through the adapter.

This product adopts a white plastic compact shell design, combining portability and flexibility. It can be easily carried for desktop use or securely mounted on open-frame structures. When the input voltage does not exceed the safe 57V range, it outputs a 5V/2A power supply and supports 10/100/1000Mbps network data transmission . The PoE port connects through Cat5e/Cat6 Ethernet cables, with an effective transmission distance of up to 100 meters.

The PT-PGC-AF is compatible with most tablet computers, Android smartphones, and the latest Apple USB-C phones and devices.

## 1.2 Product Features

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### **Supports USB 3.0 high-speed transmission protocol:**

Backward compatible with USB 2.0/1.1 standards to ensure device compatibility.

### **High-speed network and dual charging functionality:**

Provides stable network connections up to 1000M, while also supporting 5V/2A (10W) Type-C PD charging. This satisfies dual power and data needs.

### **Comprehensive safety protection mechanism:**

Integrates protections for under-voltage, over-voltage, over-current, short circuit, and surge protection. Ensures equipment operates safely and stably.

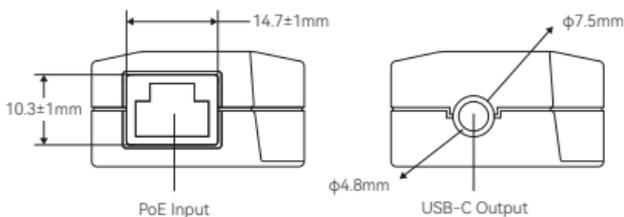
### Flexible reverse power supply design:

For mobile devices that support USB OTG, this adapter can work in environments where only PoE power is available, offering continuous high-speed network access—ideal for temporary or mobile deployment scenarios.

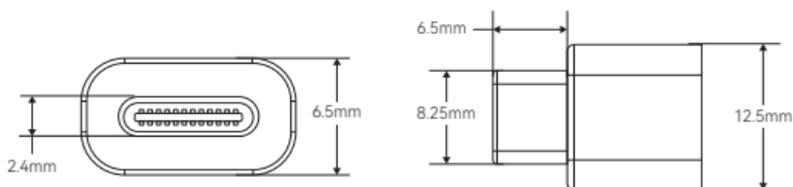
## 1.3 Product Appearance

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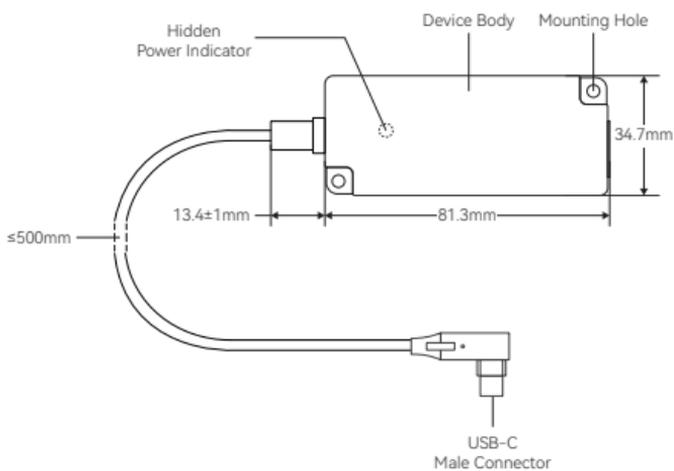
### • Front View



### • USB-C



• Top View



• Side View



## 2 Product Specification

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### 2.1 Electrical Parameters

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Item	PT-PGC-AF
Input	44-57Vdc/0.5A Max
PoE Std.	IEEE 802.3af
In. Port	RJ45
Out. Port	USB-C Male Connector
Data Rate	100/1000Mbps
USB Std.	USB3.0/USB2.0/USB1.1
Output	5Vdc/2.0A (Support PD2.0 charging protocol)
Ripple	<100mV
Protection	Over-Current: Hiccup mode Short Circuit: Hiccup mode ESD: IEC61000-4-2: Contact discharge: 6kV Air discharge: 8kV Performance B
MTBF	200000H
EMC	CE: EN 55032:2015+A11:2020+A1:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021 FCC: Part 15 Subpart B

### 2.2 Physical Characteristics

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Item	PT-PGC-AF
Enclosure	White plastic housing
IP Rate	IP40
Size	81.3mm X 34.7mm X 19mm
Cable Spec	φ5.00mm X 500mm
Weight	52.5g

## 2.3 Environmental Parameters

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Item	PT-PGC-AF
Op Temp	0°C - 40°C
Op Humid	20% - 80%, non-condensing
Op Alt	Up to 2000m
Stor Temp	-20°C - 85°C
Stor Humid	10% - 90%, non-condensing

## 2.4 Compliance Certifications

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**Safety Standard:** IEC 60950-22 (Information Technology Equipment Safety)

**Certifications:** CE, FCC

**Environmental Standard:** RoHS (Restriction of Hazardous Substances)

# 3 Device Compatibility

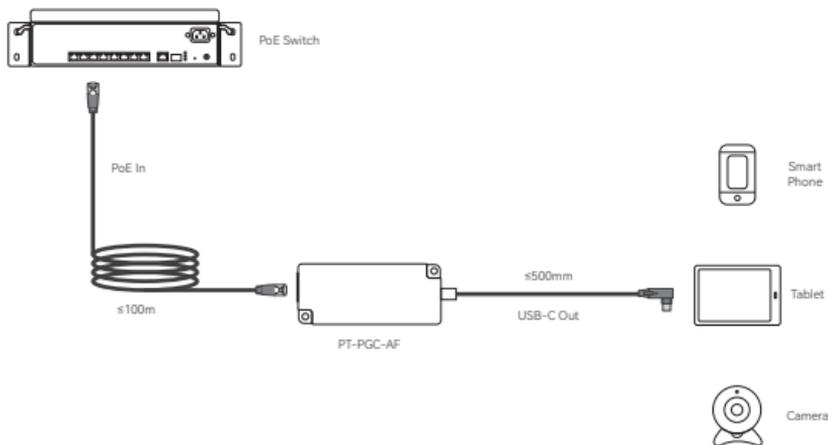
## 3.1 Device Compatibility Description

PT-PGC-AF supports major mainstream operating systems, such as Android, Windows, Linux, Mac OS, and iOS.



## 3.2 Applicable Device Types

This product series provides a safe, high-speed, and stable Ethernet connection for most smartphones, tablets, cameras, and other USB-C devices.



### Notice:

- Some devices may experience compatibility issues.
- Applicable cameras should not exceed a power consumption of 10W.

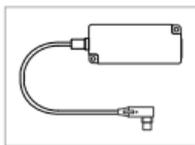
# 4 Installation Preparation

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## 4.1 Product List

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The following items are required for equipment installation and are included in the product packaging.



PT-PGC-AF



User Manual

## 4.2 Preparation of Installation Tools

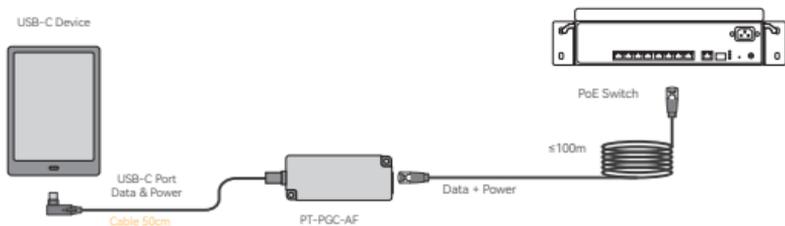
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The following tools may be required for equipment installation: spirit level, marker pen, network cable crimping tool, impact drill, several matching drill bits, rubber mallet, cross-head screwdriver, etc. These tools need to be provided by the user.

## 4.3 Equipment Inspection

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Please connect the equipment first and check whether it can work normally.



Note:  
Please select the proper power supply device.

## 4.4 Precautions

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- Do not use this product in an environment exceeding the rated voltage range to prevent equipment damage or fire hazards.
- Before powering on the equipment, ensure that all interfaces are correctly connected to avoid short circuits.
- Non-professional personnel should not open the equipment casing to prevent electric shock.
- Ensure good heat dissipation conditions for the equipment to prevent equipment damage caused by high temperatures.
- Due to the low output power of the product, when used with some devices, the device may display a charging power abnormality prompt, which is a normal phenomenon.
- To achieve a 1000M network speed, it is necessary to access a 1000M speed network and connect to the USB3.0 interface of the device.
- When connecting to a laptop, it can only be used as a Gigabit network card, and the power supply function cannot be enabled.

## 5 Product Installation

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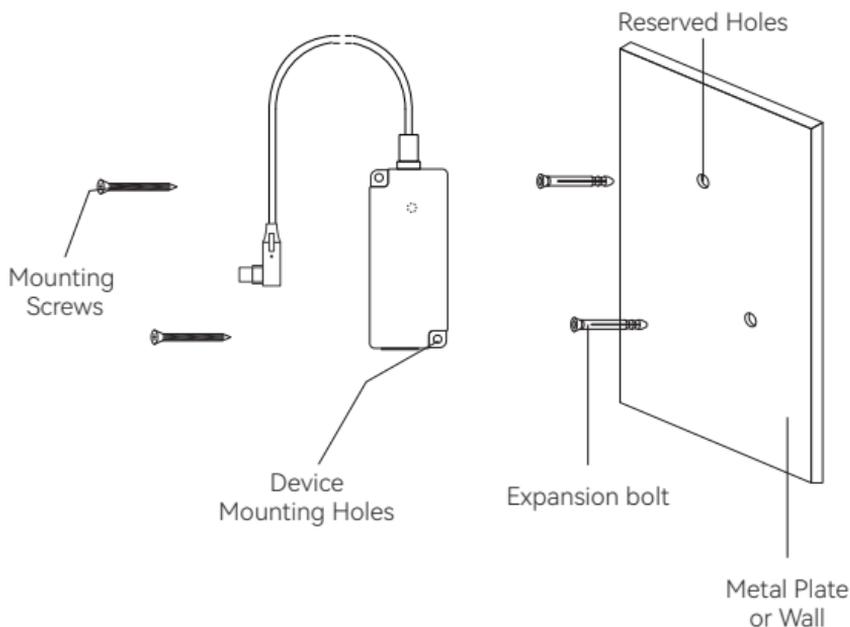
This product is mainly placed on a desktop and can also be used for fixed installation.

### 5.1 Fixed Installation

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Fixed installation can ensure stable operation.

(1) Drill holes at the selected installation position and fix the product with installation screws as shown in the figure below.



### 5.2 Inspection after Installation

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After the equipment is installed, the following inspections need to be carried out:

- Check whether the device connected to this product is working normally.
- Check whether the network cable is correctly connected.



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