

PoE to USB-C Adapter

Datasheet

PT-PGC-AF



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Declaration

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Document History

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

1 Product Introduction

1.1 Product Positioning

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

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:

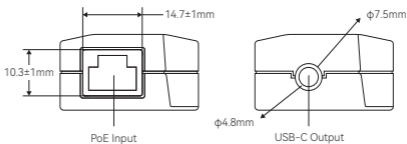
Integrates protections for under-voltage, over-voltage, over-current, short circuit, and surge protection. Ensures equipment operates safely and stably.

Flexible reverse power supply design:

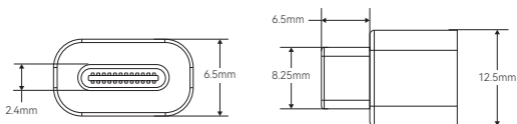
For mobile devices that support USB OTG, this adapter can work in environments where only PoE power is available, offering continuous high-speed network access—ideal for temporary or mobile deployment scenarios.

1.3 Product Appearance

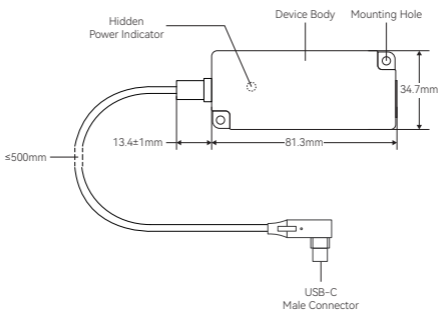
• Front View



• USB-C



• Top View



• Side View



2 Product Specification

2.1 Electrical Parameters

Item	PT-PGC-AF
Input	44-57Vdc/0.3A 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

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

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

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

Certifications: CE, FCC

Environmental Standard: RoHS (Restriction of Hazardous Substances)

3 Device Compatibility

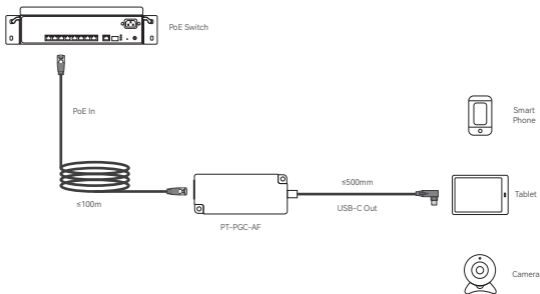
3.1 Device Compatibility Description

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.



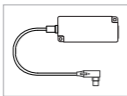
Notice:

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

4 Installation Preparation

4.1 Product List

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



PT-PGC-AF



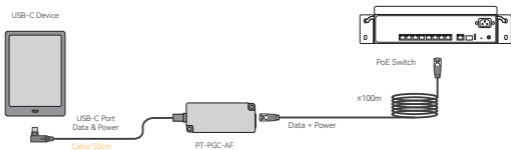
User Manual

4.2 Preparation of Installation Tools

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

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



Note:
Please select the proper power supply device.

4.4 Precautions

- 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.

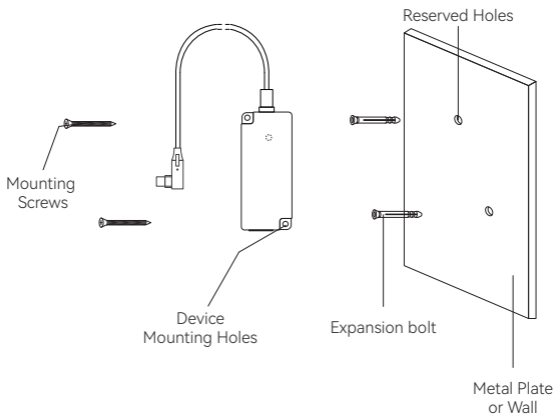
5 Product Installation

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

5.1 Fixed Installation

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

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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