

Apple Lightning PoE Adaptor

Data sheet

PTAP-AF

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Declaration

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Document History

Version	Date	Notes
v1.0	2025/05/21	First Version Release

For Whom

This manual is intended for:

Network Engineers

Network Administrators

Field Technicians

1. Product Introduction

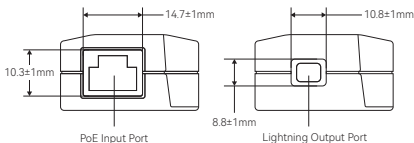
1.1 Product Introduction

PTAP-AF is an indoor PoE to USB-C adapter. It obtains power and data from an IEEE802.3af PoE power supply or PoE switch and supplies power and network to Lightning-enabled PD devices through the adapter.

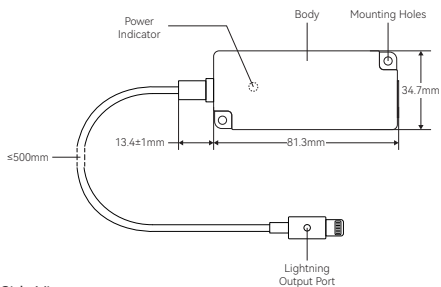
PTAP-AF features a white plastic shell design, making it portable for desktop use or fixed open installation. The device's input does not exceed a safe voltage of 57V, and the output provides 5V/2A power and 10/100Mbps network data. The effective distance for the PoE end via Cat5e/Cat6 network cables is 100 meters. PTAP-AF is compatible with most tablet computers, iPhones (with Lightning interfaces), etc., on the market. When connecting to a laptop, the power supply function cannot be used, and it can only be used as a 100Mbps network card.

1.2 Product Appearance

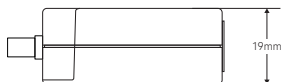
• Front View



- Top View



- Side View



2 Product Specifications

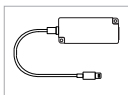
Item	PTAP-AF
Input	40-57Vdc PoE Injector / PoE Switch IEEE802.3af/at
Input Power Pins	4/5(+),7/8(-) or 3/6(+),1/2(-) or 3/6(-),1/2(+)
Output	5Vdc 2.0A
USB	USB 2.0
Data Rate	10/100Mbps
Network Protocol	IEEE802.3 i/u
Op. Temp.	0°C to 40°C
Op Humid	20%-80%, non-condensing
Op Alt	Up to 2000m
Stor Temp	-20°C — 85°C
Stor Humid	10%-90%, non-condensing
IP Rating	IP40
Size	(81.3+500)mm X 34.7mm X 19mm
Weight	51.4g

3. Installation Preparation

3.1 Installation Preparation

Package Contents

Open the PTAP-AF package box carefully. The package should contain the following items:



PTAP-AF



Operating Manual

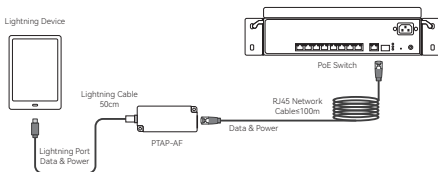
3.2 Preparation of Installation Tools

Tools and Materials

The following tools may be required for equipment installation: spirit level, marker pen, knife, wire stripper, crimping tool, impact drill and matching drill bits, rubber mallet, Phillips screwdriver, wrench, ladder, etc. These tools need to be prepared by the user.

3.3 Equipment Inspection

Please connect the equipment first to check if it can work normally.



Notice:



- Please use Cat 5e or higher PoE cables to connect this product.
 - For 100Base-TX Ethernet, it is recommended to use Category 5 or higher UTP/STP cables;
-

3.4 Precautions

- This device is for indoor use only.
- To achieve the best experience with this device, please use Cat 5e or higher PoE cables.
- Connect the PoE network cable to the PoE input port of this product, and the length of the network cable should not exceed 100 meters.
- When using the device with long-term power supply, some devices may experience battery swelling, reduced battery storage capacity, etc. Therefore, avoid long-term charging when using this product.
- To achieve the best product experience, please use USB 3.0 or higher standard products for connection.
- If this product needs to be used for fixed installation, please choose metal or wall surfaces, and do not use wooden backplanes to avoid fire risks.

4 Installation Guide

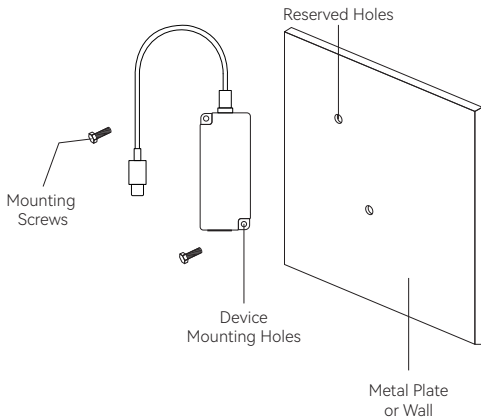
This product is mainly placed on a desktop but can also be used for fixed installation.

4.1 Fixed Installation

This product does not support the use of mechanized network cables. If you need to use mechanized cables, you may order an extended metal sealing fitting. It is recommended to crimp the RJ45 connector using the T568B standard wiring sequence

The device can work stably through fixed installation.

Drill holes at the selected installation position and fix the product with installation screws. As shown in below:



4.2 Inspection After Installation

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

- Whether the device connected to this product is working normally;
- Whether the network cable is correctly connected.

