Model OT-PLC302POC/PDU

4-Channel Ethernet &Power Receiver Hub

Product User Manual

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OT-PLC302POC/PDU 4-Channel Ethernet & Power Receiver Hub is a Multi-Channel Ethernet and power receiver hub. It simultaneously receives Ethernet and power signals over any pair of 2-wire such as coaxial cable, twisted pair, Cat5, power line, etc. The max PoE distance can reach 500m.

This product can be widely used for network extension system, network security system, network information publishing system, network renovation and expansion systems, elevator, railway, urban traffic, mining and telecommunication, etc.

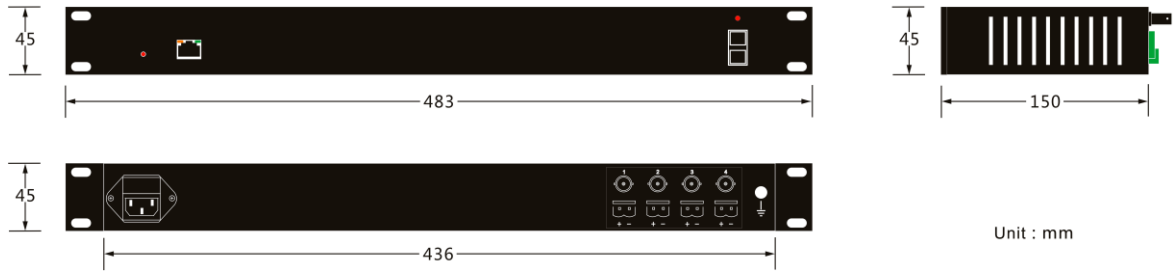
Features

- Max PoE distance can reach 500m
- Full duplex 10/100Mbps
- Transmit high-speed network data and power signal over any 2-wire
- Transparent transmission, no adjustment, no need to change the upper software
- 19 inch rack size installation, plug and play, anti-interference design

Technical Parameter

Category		Description
Power	Power Input	100～240VAC
	Power Consumption	≤15W / PC
	PoE Output	48VDC / 160W
Transmission / Rate	Standard Compliance	IEEE 802.3, IEEE 802.3u
	Bandwidth	Full duplex 10/100Mbps
Physical Characteristic	Dimensions (L × W × H)	483mm×45mm×150mm
	Material	Aluminum
	Net Weight	2.1KG/PC
Operating Environment	Working Temperature	-20℃～60℃
	Working Humidity	＜95% (Non-condensation)

Dimension



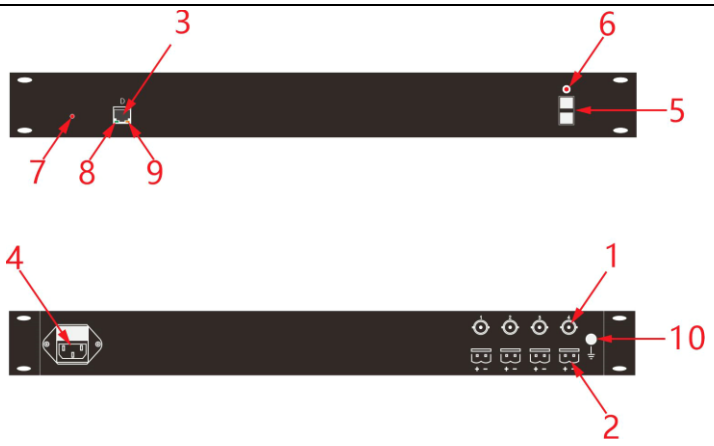
Note: Dimension error value ±1 mm

Installation Instructions

Definition of Receiver & Transmitter; Terminal device & Remote device:

Receiver & Transmitter: Ethernet Extender Unit connected to the computer is Receiver by default. Ethernet Extender Unit connected to the camera is Transmitter by default.

Terminal device / Remote device: Terminal device generally refers to the direction of computer / machine room, and remote device generally refers to the direction of camera.

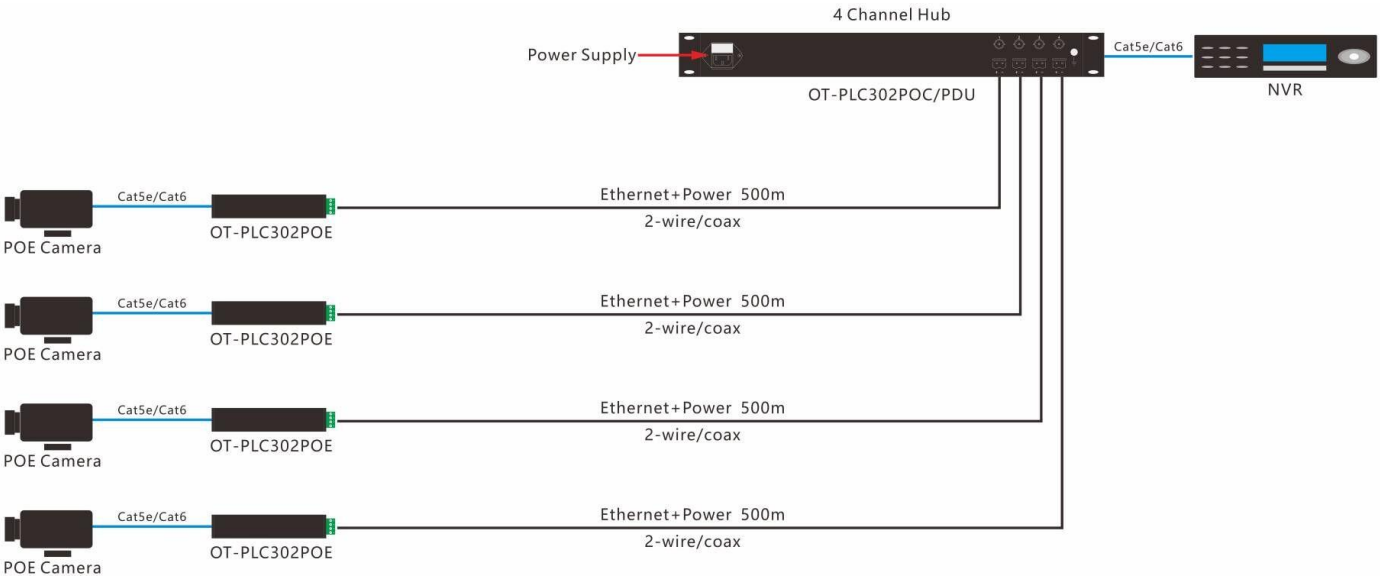


Step	Installation Instruction	Step	Installation Instruction
1	Connect the coaxial cable to the BNC terminal of hub (1)	6	General power indicator is always on when working (6)
2	Connect the 2-wire to the 2P terminal of hub (2)	7	Power indicator is always on when working (7)
3	Connect the RJ45 terminal to the end-side network devices (3)	8	Network data indicator is flashing when working (8)
4	Connect power (100～240VAC) to the power terminal (4)	9	Line indicator is always on or flashing when working (9)
5	Power switch (5)	10	Grounding terminal (10)

Installation Diagram

1. Single channel PoE Extender (OT-PLC302POE) can be used together with 4-channel Ethernet and power receiver hub (OT-PLC302POC/PDU), provide 100~240VAC for the 4-channel Ethernet and power receiver hub, single PoE Extender, PoE Camera no need extra power supply.

2. 4-channel Ethernet and power receiver hub (OT-PLC302POC/PDU) can support 4 PoE Cameras or 4 IP Cameras or PoE and IP Cameras combination configuration at the same time.



Note: Please pay more attention to the Positive and Negative pole when you connect the 2-wire transmission cable.

Troubleshooting Method

1. When direct connection by network cable is normal, the lag time is large after connecting Ethernet Extender.

(1) Check 2-wire connection is correct or wrong. In the case of the wrong connection, the signal can be transmitted but the lag is very large.

(2) When multiple Ethernet Extenders are used together, they need to be grouped and paired to avoid the delay caused by signal crosstalk.

2. After a period of using Ethernet Extender, the Ethernet signal has packet loss or disconnection.

(1) Check the power adaptor status, if find they are aged or damaged, please replace it.

(2) Check all the cable connections, if find any loose cable or short circuit, please solve it.

3. The screen is frozen, and the Ping packet is normal.

(1) Ethernet Extender is transparent transmission. Check whether the version and setting of IP Camera are correct or not.

(2) Check whether the throughput of network switch is enough or not. Please directly connect the computer to check the status.

(3) Confirm if all the IP surveillance devices belong to the same brand or not, whether they support onvif, and then check their compatibility, do the test of reducing video stream.

(4) If working environment temperature of Ethernet Extender is too high, firstly cut off the power supply. If confirm the devices are overheated, please adopt temperature decrease measures.

4. After Ethernet Extender fails, the replaced one can’t transmit the signal.

(1) If Ethernet Extenders have been paired in advance, the replaced devices shall be also paired, and other devices of the same group shall be also powered off and restarted.

(2) When Ethernet Extenders are paired, there is only one Receiver in one group, if have multiple Receivers, the signal can’t transmit. Confirm the replaced Ethernet Extender is the same model, they can’t be mixed with other brand products to be used.

Use Tips

When you use OT-PLC302POC/PDU, please follow the below tips as a reference, in order to reduce the fault in the process of using and the inspection work.

1. The device supports auto-negotiation allocation Receiver and Transmitter. When multiple hubs put together, it must be grouped. Otherwise, the network data won't transmit. This hub unit suggests to be installed in the terminal side.

2. Signal transmission cable must be the copper cable. Other material cables will cause the decrease of signal transmission quality and distance.

3. Long distance cable connection must be formal connection methods, such as welding or using connectors.

4. Coaxial cable, twisted-pair cable, telephone line and power line all can be used to transmit network data signal in projects. A variety of cables arbitrary mixed connection also can reduce the quality of signal.

5. Please choose matching power supply **(100~240VAC)**.

6. There is no waterproof design for this product, please make sure it is used in dry environment.

7. If device fails, do not disassemble or repair it by yourself. Please contact us timely.

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