



Model OT-PLC601/PDU

16-Channel Ethernet Extender Hub

Product User Manual



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OT-PLC601/PDU 16-Channel Ethernet Extender Hub is a Multi-Channel Ethernet Extender Hub. It simultaneously receives multiple network signals, supports both a point-to-point and point to multi-point. It is used to transmit data network signal over any pair of 2-wire such as twisted pair, Cat5, coaxial cable and power line, etc. The max distance reach 1,000m.

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 transmission distance can reach 1,000m
- ◆ Full duplex 10/100Mbps
- ◆ Transmit high-speed network data over 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

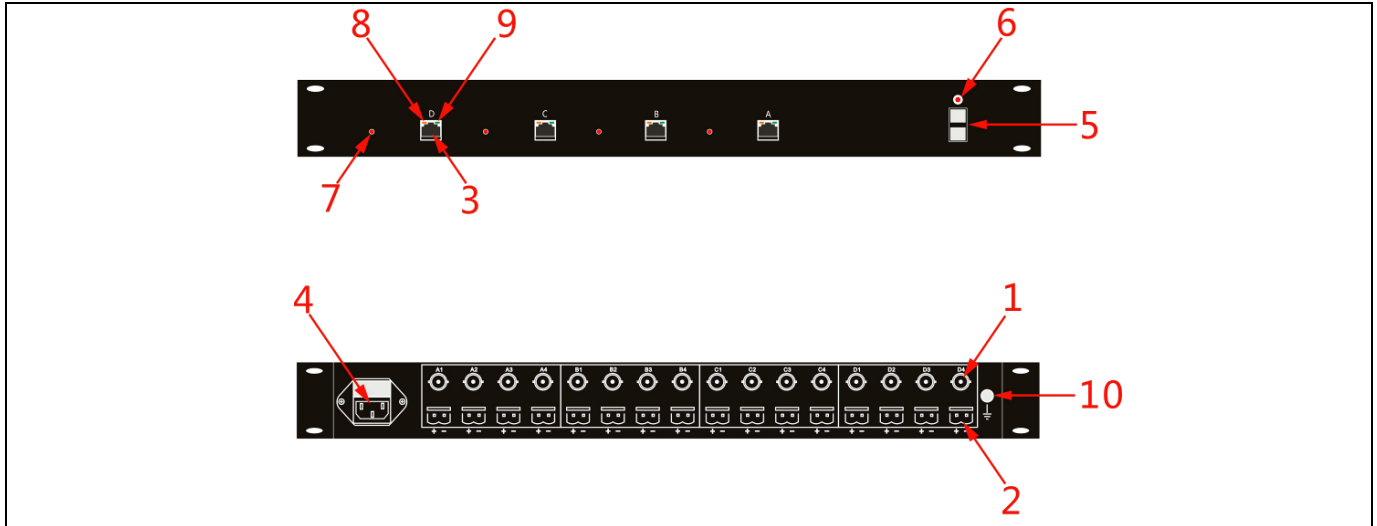
Category		Description
Power	Power Input	100 ~ 240VAC
Ethernet network	Standard Compliance	IEEE 802.3, IEEE 802.3u
	Bandwidth	Full duplex 10/100Mbps
Physical Characteristic	Dimensions (L × W × H)	483mm × 45mm × 150mm
	Material	Aluminum
	Net Weight	1.6KG/PC
Operating Environment	Working Temperature	-20°C ~ 60°C
	Working Humidity	<95% (Non-condensation)

Installation Instructions

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

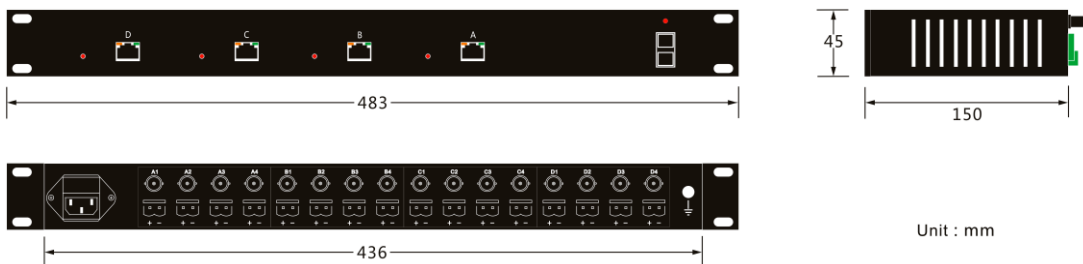
Receiver & Transmitter: Ethernet Extender Unit connected to the computer is Receiver by default. Ethernet Extender Unit connected to the camera is Transmitter by default.

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	The RJ45 terminal of the end-side network devices connect to (3)	8	Network data indicator quickly blinks on 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)

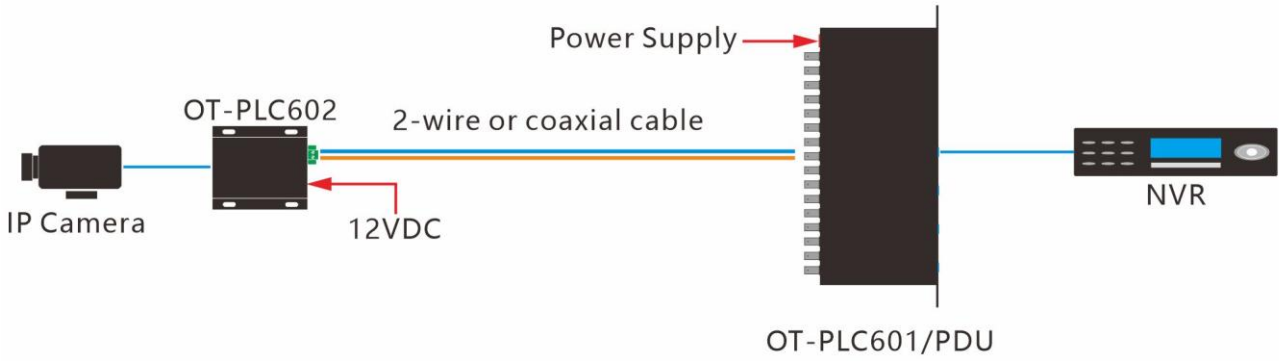
Dimension



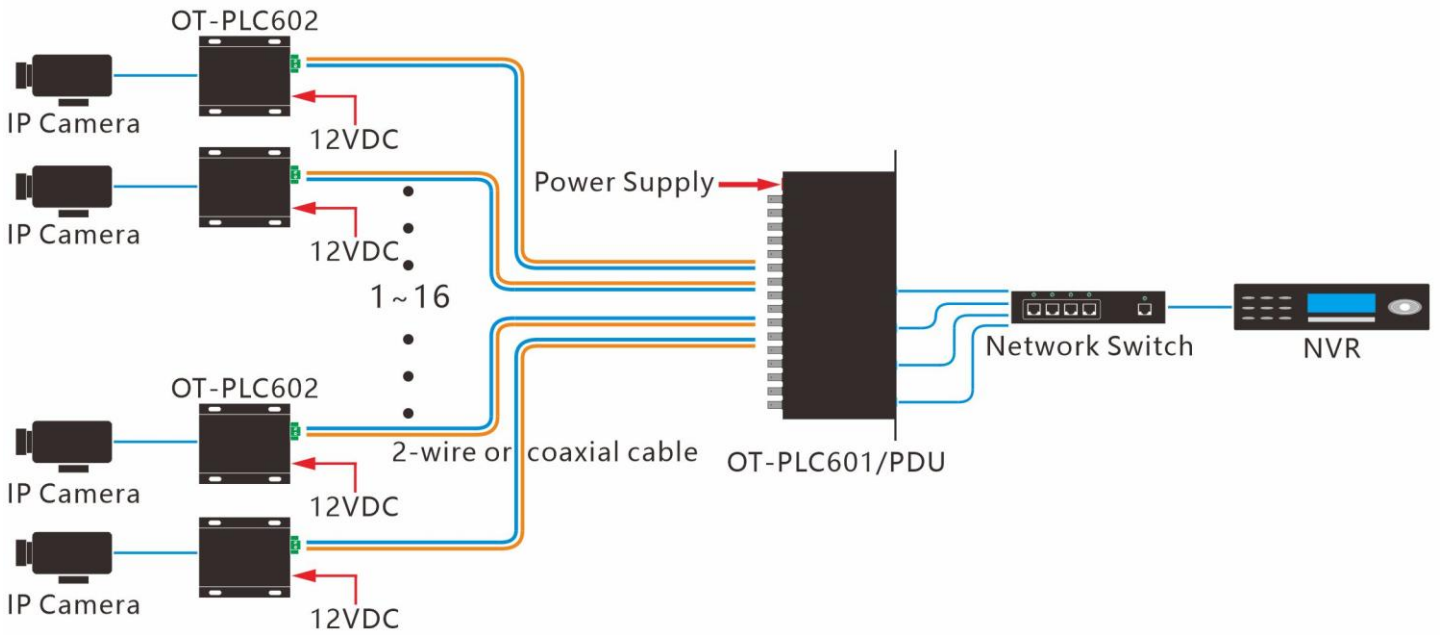
Unit : mm

Note: Dimension error value ±1 mm

Installation Diagram



Multi-Channel Connection



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-PLC601/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. OT-PLC601/PDU can be connected with single channel Ethernet Extender, The device supports auto-negotiation allocate Receiver and Transmitter. It also can be set Receiver-Transmitter side and grouped by software. Each group (one point to multi-point communications group) only allows one Receiver, others are Transmitters. Otherwise, the network data won't be able to transmit. Receiver suggests to be installed in Local side, OT-PLC601/PDU suggests to be installed in Local.
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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