

Model OT-PLC602-T Ethernet Extender Product User Manual



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OT-PLC602-T Ethernet Extender is a high-speed Ethernet transmission device. It can transmit Ethernet signal over any 2-wire cable such as coax cable, Cat5 cable, telephone cable, power line and so on. The max distance can reach 1,000m.

This device contains the Receiver unit and Transmitter unit, which supports point to point and point to multi-point network transmission. It can greatly simplify the project cabling, apply to expand network system and transmit Ethernet signal for long distance.

Features

- Max transmission distance can reach 1,000m
- Full duplex 10/100Mbps
- Support power over cable technology (0-220V)
- Plug and play, transparent transmission, no adjustment and no need to change the upper software
- Low power consumption, communication channel dynamic adjustment and high performance error correction coding

technology

Category		Description
Power	Available Voltage Range	12~24VDC
	Power Consumption	≪3W / PC
Transmission / Rate	Standard Compliance	IEEE1901, IEEE802.3
	Up Down Agreement	CSMA/CA
	Bandwidth	Full duplex 10/100Mbps
	Dimensions (L × W × H)	98mm×86.5mm×25mm
Physical Characteristic	Material	Aluminum
	Net Weight	150g / PC
Operating Environment	Working Temperature	-20°C~60°C
	Working Humidity	<95% (Non-condensation)

Technical Parameter



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

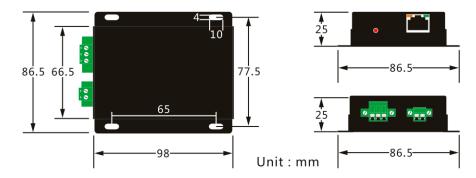
Unit connected to the camera is Transmitter by default.

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.

Receiver		Transmitter	
Step	Installation Instruction	Step	Installation Instruction
1	Connect the UTP cable of network equipment to RJ45 port of receiver unit (1)		Local network equipment is connected to RJ45 port of transmitter unit (8)
2	The terminal for 2-wire transmission cable; no positive and negative poles (2)		The terminal for 2-wire transmission cable; no positive and negative poles (9)
3	Connect power supply (12~24VDC) to the power port; pay attention to the positive and negative poles (3)		Connect power supply (12~24VDC) to the power port; pay attention to the positive and negative poles (10)
4	Grounding port (4)		Power indicator is always on (11)
5	5 Power indicator is always on (5)		Network data indicator quickly blinks when data transmission is normal (12)
6	6 Network data indicator quickly blinks when data transmission is normal (6)		Line indicator is always on (or quickly blinks)(13)
7	Line indicator is always on (or quickly blinks) (7)		

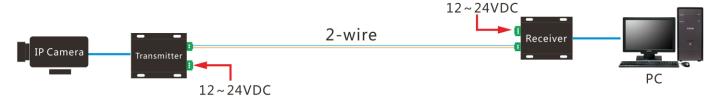
Dimension



Note: Dimension error value ±1 mm



Installation Diagram



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. 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. When multiple receiver units are placed together for use, they can't communicate or have significant

network latency.

(1) Install the receivers with a distance of at least 2 meters or place them separately in metal equipment boxes to avoid signal crosstalk.

(2) Do the grouping for Ethernet Extenders by software. The grouping software is provided by us, please contact us timely.



Use Tips

When you use OT-PLC602-T, please follow the below tips as a reference, in order to reduce the fault in the process of using and the inspection work.

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

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

3. Coaxial cable, twisted-pair cable and telephone 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.

4. Please choose matching power supply (12~24VDC/1A).

5. If need to transmit power at the same time, you should install power filter in the front of each device to make sure signal stability.

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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