

Model OT-PLC101-3P Ethernet Extender Product User Manual





OT-PLC101-3P Ethernet Extender allows 10/100 BaseT Ethernet to be transmitted over any 2-wire copper cables.

This device is often used in legacy installations where existing wire is re-used as part of an upgrade to IP devices.

This device contains one Receiver unit and one Transmitter unit, which supports point-to-point network transmission.

This device has been widely used for network extension systems, network security, network information publishing systems, network renovation and expansion systems, etc.

Features

- ◆ Max transmission distance can reach 600m
- ◆ Full duplex 10/100Mbps
- ◆ 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

Technical Parameter

Category		Description
Power	Available Voltage Range	12~24VDC
	Power Consumption	≤2W / PC
Transmission / Rate	Standard Compliance	IEEE1901, IEEE802.3
	Up Down Agreement	CSMA/CA
	Bandwidth	Full duplex 10/100Mbps
Physical Characteristic	Dimensions (L x W x H)	100mm×86.5mm×25mm
	Material	PC Alloy
	Net Weight	120g / PC
Operating Environment	Working Temperature	-20°C~60°C
	Working Humidity	<95% (Non-condensation)

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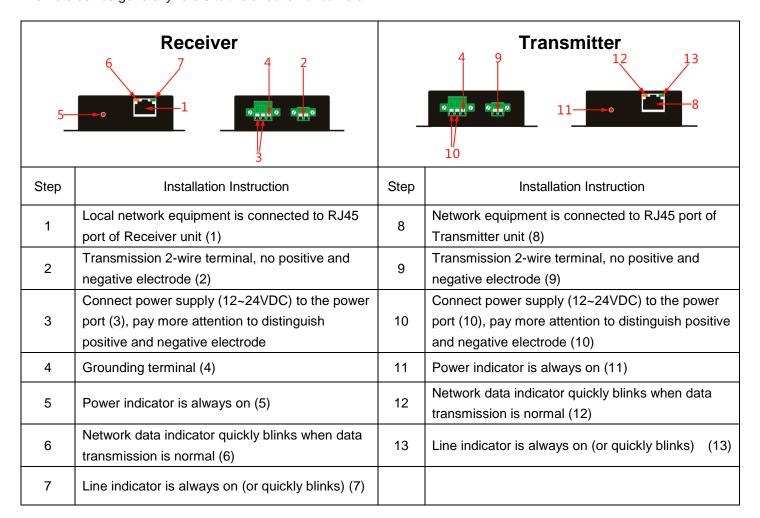


Installation Instructions

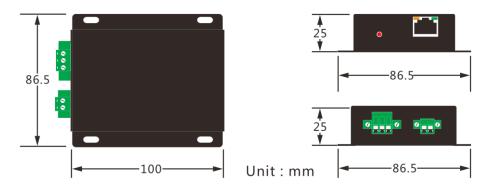
Definition of Receiver & Transmitter; Terminal device & Remote device:

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.



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.

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Use Tips

When you use OT-PLC101-3P, 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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