

Model OT-PLC601GI

Industrial Ethernet Extender

Product Datasheet



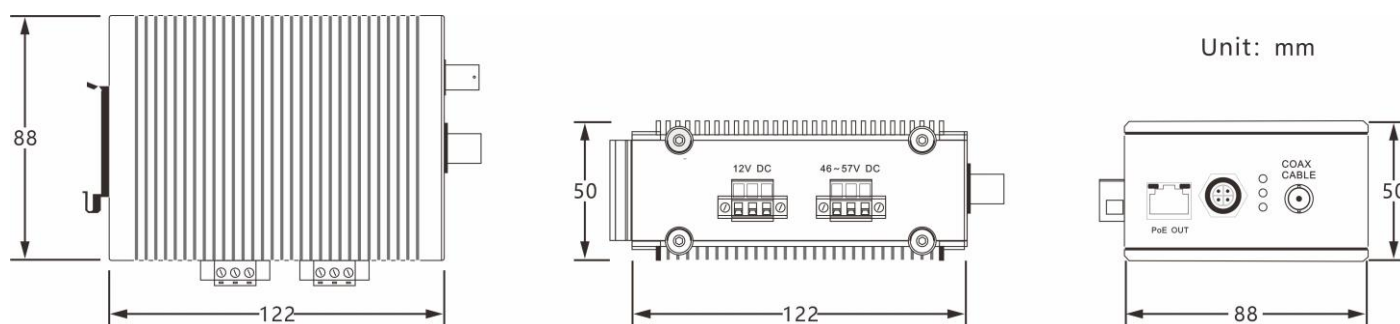
OT-PLC601GI Industrial Ethernet Extender is single channel high-speed Ethernet transmission device. It can simultaneously transmit Ethernet and Power over any 2-wire cable, such as Cat5, coax cable, telephone line, power line and so on. The max transmission distance can reach 1,000 meters and the max physical bandwidth can reach 500Mbps.

This device contains the Receiver and Transmitter unit, which supports point to point and point to multi-point network transmission. It offers a BNC connection port. If connecting to 2-wire cable, please use a BNC to 2-wire converter. This solution simplifies complex network wiring, ideal for vehicle-mounted systems, railway network expansion, and long-distance PoE signal transmission.

Features

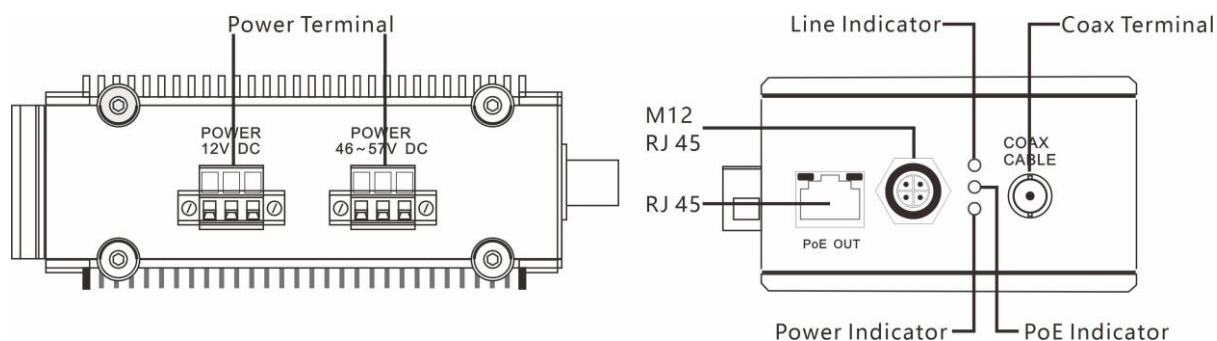
- ◆ Max transmission distance can reach 1000m, PoE transmission distance can reach 500m
- ◆ Max physical bandwidth can reach 500Mbps
- ◆ Support power over cable technology (PoE)
- ◆ Transparent transmission, no adjustment and no need to change the upper software
- ◆ 35mm guide rail type installation and wall mounted installation, plug and play, anti-interference ability design

Dimension



Note: Dimension error value ± 1 mm

Interface Description



Technical Parameter

Category		Description
Power	Available Voltage Range	12VDC or 46~57VDC
	Power Consumption	≤3W / PC
Transmission / Rate	Standard Compliance	IEEE1901, IEEE802.3af/at
	Up down Agreement	CSMA/CA
	Physical Speed	500Mbps
	Encryption Way	128-bit AES Encryption
Physical Characteristic	Dimension (L × W × H)	122×88×50mm
	Material	Aluminum
	Net Weight	490g/PC
Operating Environment	Working Temperature	-40℃~85℃
	Storage Temperature	-55℃~125℃
	Working Humidity	20%~85% Non-condensation
	Storage Humidity	10%~90% Non-condensation

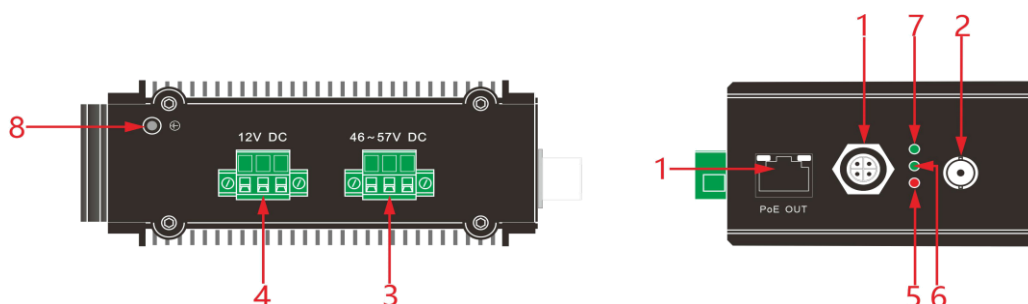
Installation Instructions

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.

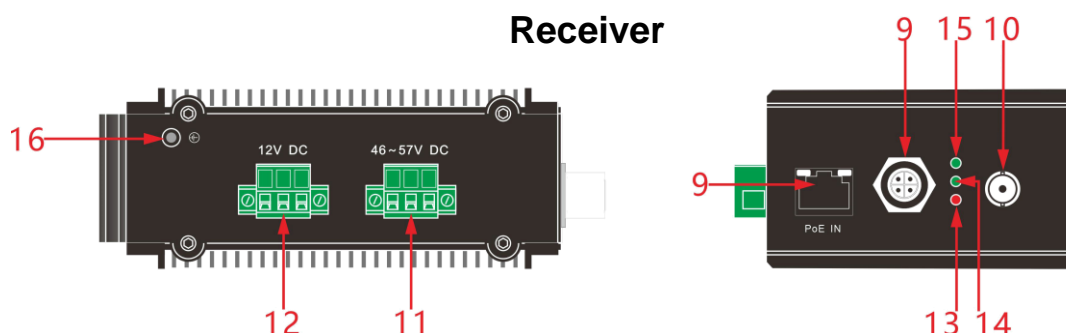
Terminal device / Remote device: Terminal device generally refers to the direction of computer / machine room, and remote device generally refers to the direction of camera.

Transmitter



Step	Installation Instruction	Step	Installation Instruction
1	Cat5 cable of the network equipment is connected to RJ45 port or M12 port of Transmitter unit(1)	5	Power indicator (5)
2	coax cable is connected to BNC port (2)	6	PoE indicator (6)
3	46 ~ 57VDC power adapter is connected to the power port (3)	7	Line indicator (Line indicator is always on or flashing after successful connection) (7)
4	Low voltage power supply (12VDC) is connected to the power port (4)	8	Grounding terminal (8)

Receiver



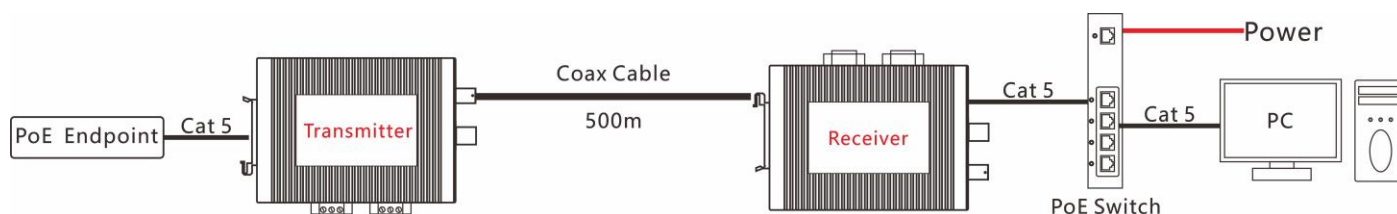
Step	Installation Instruction	Step	Installation Instruction
9	Cat5 cable of the network equipment is connected to RJ45 port or M12 port of Receiver unit (9)	13	Power indicator (13)
10	Coax cable is connected to BNC port (10)	14	PoE indicator (14)
11	46 ~ 57VDC power adapter is connected to the power port (11)	15	Line indicator (Line indicator is always on or flashing after successful connection) (15)
12	Low voltage power supply (12VDC) is connected to the power port (12)	16	Grounding terminal (16)

Power, Bandwidth & Distance Table

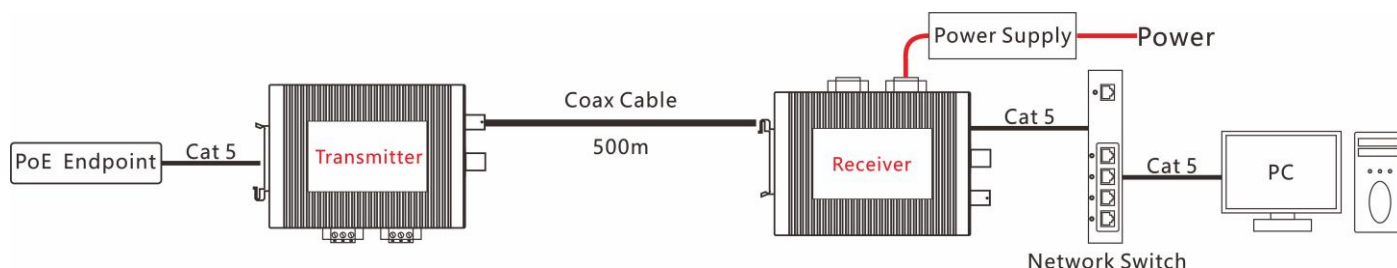
Receiver <- -> Transmitter		Coaxial Cable	
Receiver power supply type		PoE 30 W	DC 48V (1.25A)
Distance 100 M	Bandwidth (Mbps)	93	93
	PoE (W)	22.4	25.8
Distance 200 M	Bandwidth (Mbps)	86.5	86.5
	PoE (W)	20.7	21.5
Distance 300 M	Bandwidth (Mbps)	84	84
	PoE (W)	20	20.5
Distance 400 M	Bandwidth (Mbps)	82	82
	PoE (W)	13	12.5
Distance 500 M	Bandwidth (Mbps)	80.5	80.5
	PoE (W)	12	9

Installation Diagram

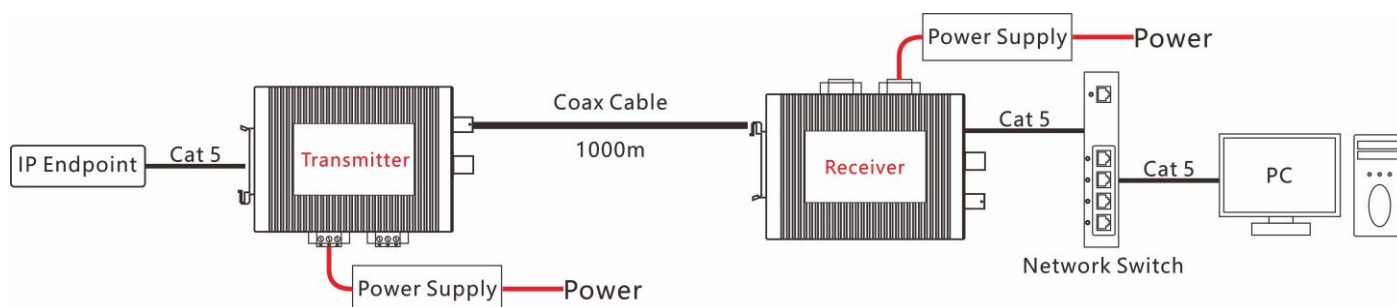
1. This product supports PoC and PoE equipment to use. Within 500m distance, you only need to connect the PoE power supply equipment to Receiver unit. The Transmitter unit and remote PoE devices all can be powered.



2. When the Receiver uses 46 ~ 57VDC power adapter to supply power, within 500m distance, the Transmitter unit and remote PoE devices all can be powered. **If the transmission distance is longer (for example 1000m), the power loss is bigger. You can use 46 ~ 57VDC power adapter for Transmitter unit. The remote PoE devices can be powered.**



3. If the remote devices are not PoE devices, you can offer 12VDC power supply for the Receiver and Transmitter unit separately; the remote devices need to be powered separately.



Notes: In order to ensure the power supply with low transmission loss, we suggest using high quality cables such as coax cables above RG59.



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