

Prostal

Model POT-PLC604POE

4-Ch PoE Extender

Product Datasheet



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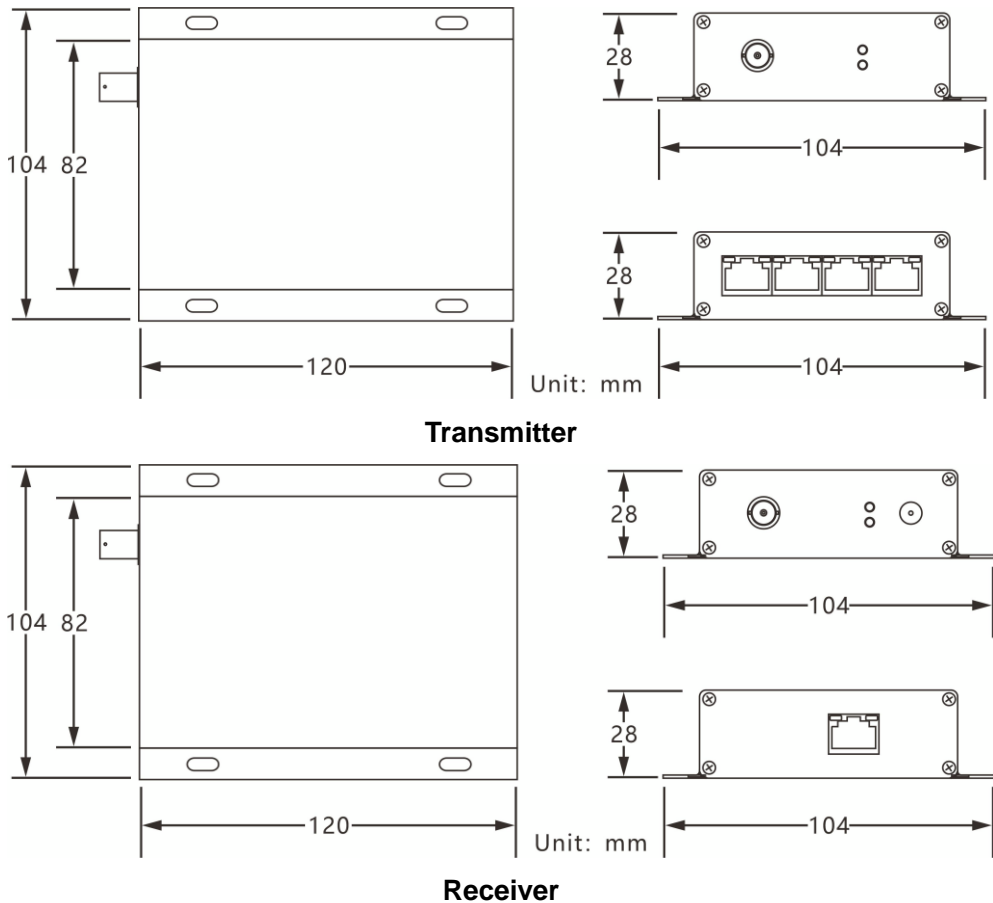
POT-PLC604POE is a high-speed 4-Ch PoE Extender. It transmits Ethernet and PoE signal over single pair 2-wire cable. This device supports both PoC and PoE function.

This device contains one Receiver unit and one Transmitter unit, and can be connected to the existing cabling infrastructure for IoT devices including IP phones, cameras, access control, speakers and etc.

Features

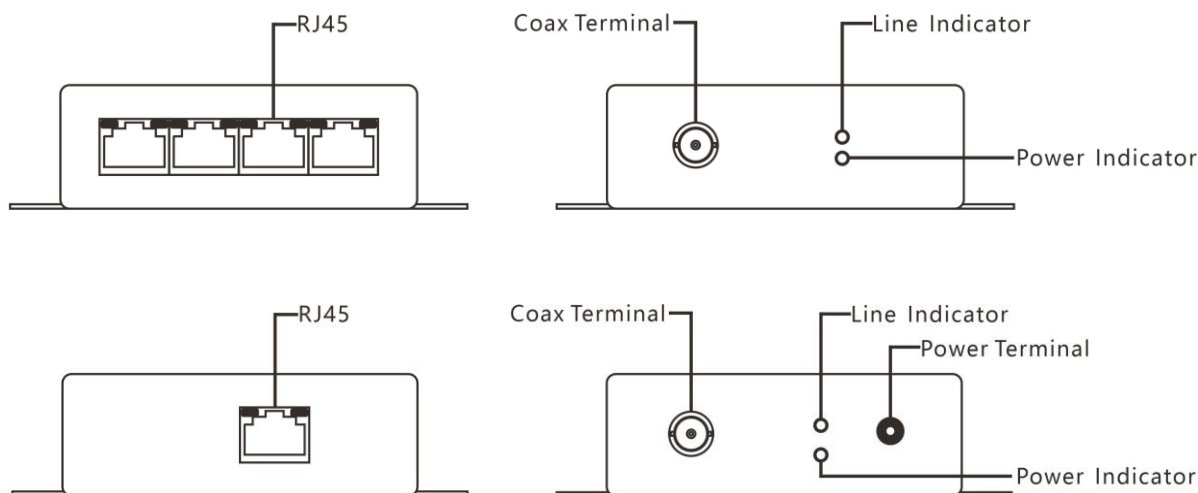
- ◆ Max Transmission PoE distance can reach 500m
- ◆ Full duplex 100Mbps
- ◆ Support PoE power supply and Power over cable technology
- ◆ Transparent transmission with no adjustments required and no need to modify upper-level software
- ◆ Dynamic communication channel adjustment with high-performance error correction coding technology

Dimension



Note: Dimension error value ±1 mm

Interface Description



Technical Parameter

Category		Description
Power Input (Receiver)	RJ45 / PoE Input	Standard 48 ~ 56VDC; IEEE802.3af/at/bt
	DC Input	48 ~ 56VDC
	Power Consumption	≤3W / PC
Power Output (Transmitter)	Total PoE Output	Standard 48VDC; IEEE802.3af/at
	Power Consumption	≤4W / PC
Transmission / Rate	Standard Compliance	IEEE1901, IEEE802.3
	Bandwidth	Full duplex 100Mbps
Physical Characteristic	Dimension (L x W x H)	120x104x28mm
	Material	Aluminum Alloy
	Net Weight	Receiver: 235g/PC, Transmitter: 245g/PC
Operating Environment	Working Temperature	-20°C~60°C
	Working Humidity	<95% (Non-condensation)

Power, Bandwidth & Distance Table

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

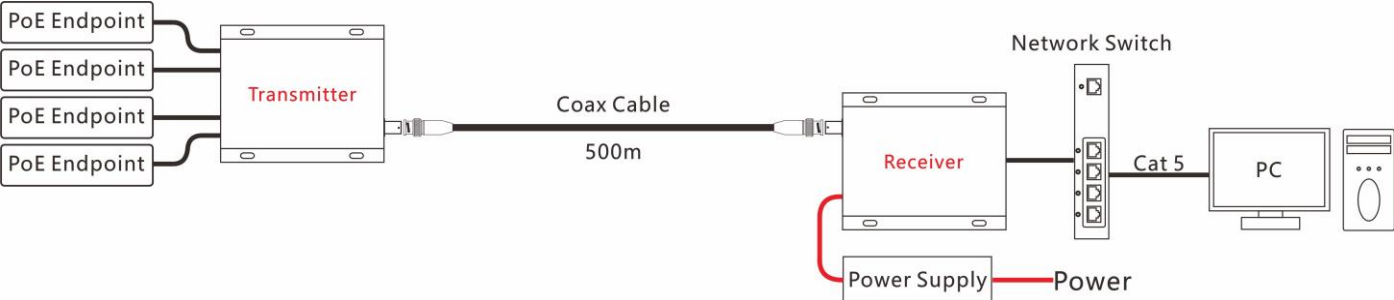
Receiver <- -> Transmitter		Cable 2x0.75 mm ²	
Receiver power supply type		PoE 30 W	DC 48V (1.25A)
Distance 100 M	Total Bandwidth (Mbps)	92	92
	Total PoE (W)	21	25.3
Distance 200 M	Total Bandwidth (Mbps)	86	86
	Total PoE (W)	20.4	23.1
Distance 300 M	Total Bandwidth (Mbps)	82	82
	Total PoE (W)	19.6	20.5
Distance 400 M	Total Bandwidth (Mbps)	80	80
	Total PoE (W)	12	10.5
Distance 500 M	Total Bandwidth (Mbps)	78	78
	Total PoE (W)	11	9

Note:

The actual data speed and PoE performance can vary by the environmental conditions and the cable qualities.

Installation Diagram

1. When the Receiver unit is powered by 48-56VDC, both the Transmitter unit and PoE devices are powered without the need for an external power supply.



2. When the Receiver unit is powered by a PoE switch, both the Transmitter unit and PoE devices are powered without requiring an external power supply.

