

# Model OT-PLC302POE / OT-PLC302-DC

## PoE Extender

## Product Datasheet



CE FC RoHS  

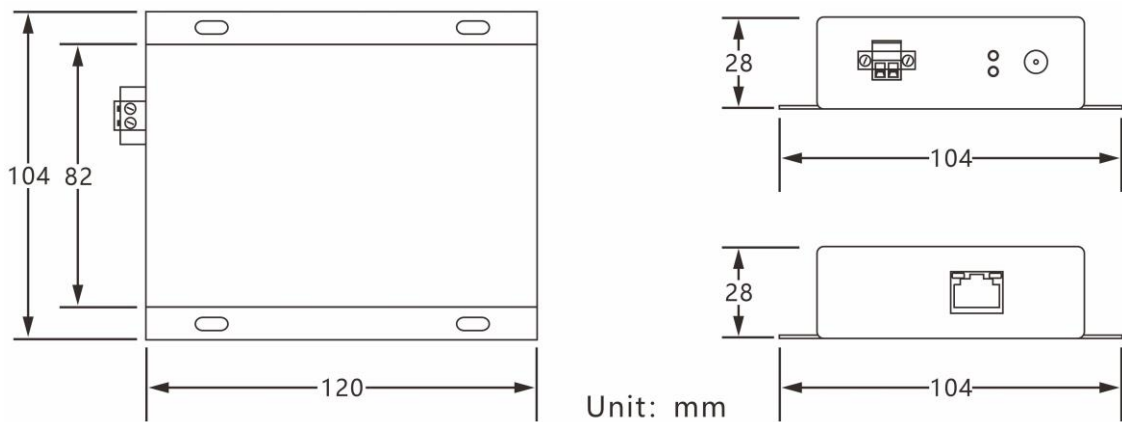
**OT-PLC302POE / OT-PLC302-DC** is a high-speed PoE Extender. It transmits Ethernet and PoE signal over single pair 2-wire cable. This device supports both PoC and PoE function.

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.

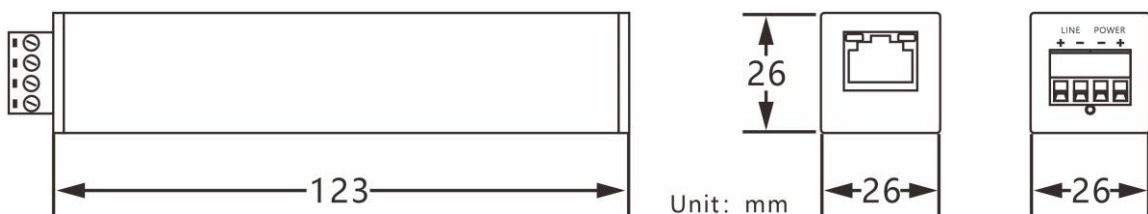
## Features

- ◆ PoE over 1 pair 2-wire cable up to 500m
- ◆ Full duplex 100Mbps
- ◆ Can be powered by 48-56VDC or PoE switch/injector
- ◆ Transparent transmission

## Dimension



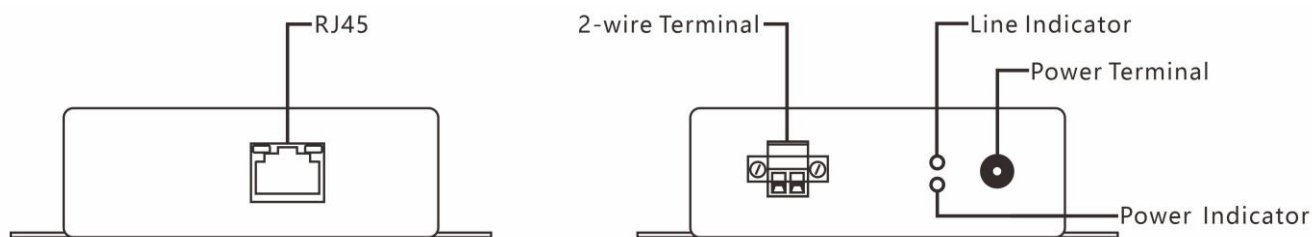
**Receiver Unit**



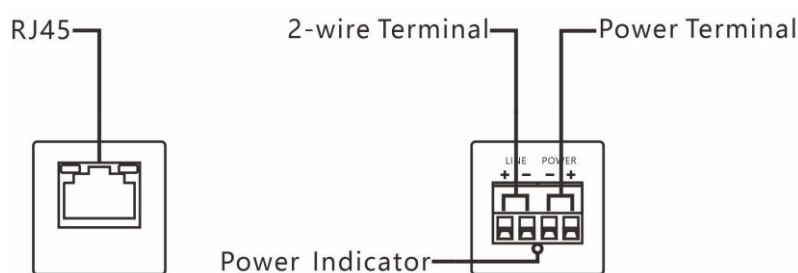
**Transmitter Unit**

**Note: Dimension error value  $\pm 1$  mm**

## Interface Description



**Receiver Unit**



**Transmitter Unit**

## Technical Parameter

Category		Description
<b>Power Input (Receiver)</b>	RJ45/PoE Input	Standard 48~56VDC; IEEE802.3af/at/bt
	DC Port Input	48~56VDC
	Power Consumption	≤3W / PC
<b>Power output (Transmitter)</b>	RJ45/POE Output	Standard 48VDC; IEEE802.3af/at
	Power Consumption	≤3W / PC
<b>Ethernet</b>	IEEE 802.3, IEEE802. 3u	Full duplex 100Mbps
<b>Physical Characteristic</b>	Dimension (L × W × H)	Receiver: 120x104x28mm Transmitter: 123x26x26mm
	Material	Aluminum Alloy
	Net Weight	Receiver: 225g Transmitter: 115g
<b>Operating Environment</b>	Working Temperature	-20°C~60°C
	Working Humidity	<95% (Non-condensation)

## Power, Bandwidth & Distance Table

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

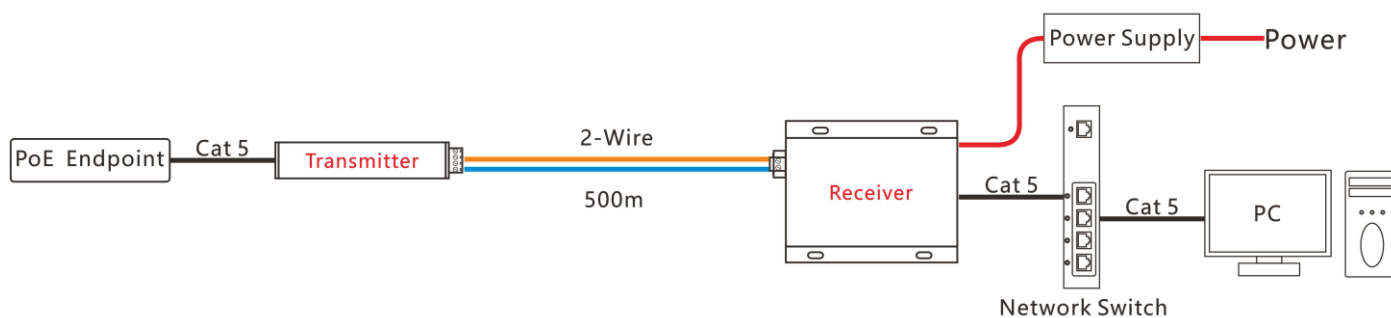
Receiver <- -> Transmitter		Coaxial Cable	
Receiver power supply type		PoE 30 W	DC 48V (1.25A)
Distance 100 M	Bandwidth (Mbps)	93	93
	PoE (W)	22.4	25.8
Distance 200 M	Bandwidth (Mbps)	86.5	86.5
	PoE (W)	20.7	21.5
Distance 300 M	Bandwidth (Mbps)	84	84
	PoE (W)	20	20.5
Distance 400 M	Bandwidth (Mbps)	82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

**Note:**

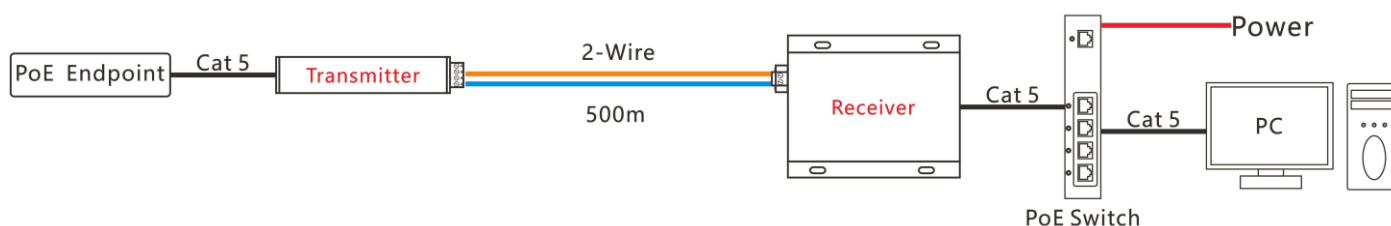
The actual data speed and PoE performance can vary by the environmental conditions and the cable qualities.

## Connection 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.



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