Model OT-PLC101POE / OT-PLC101-DC

PoE Extender

Product Datasheet



CE FC RoHS

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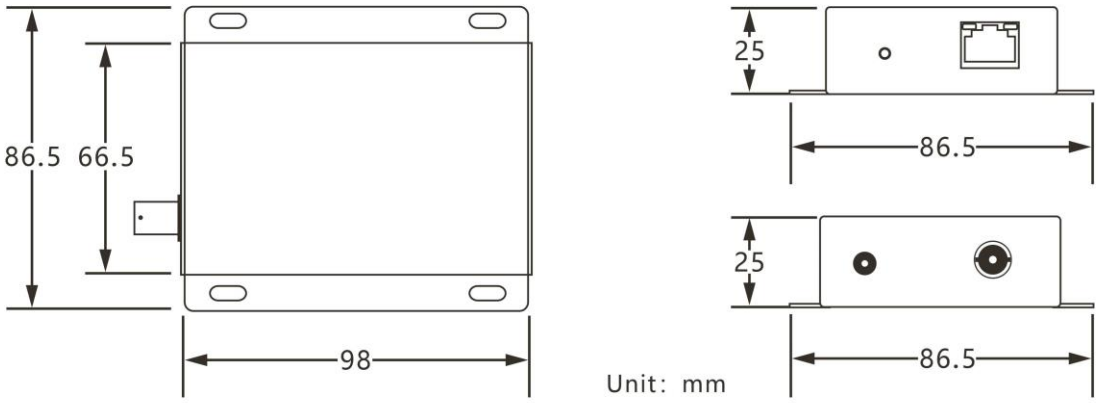
OT-PLC101POE/OT-PLC101-DC is a high-speed PoE Extender. It transmits Ethernet and PoE signal over coax/2-wire cable. This device supports both PoC and PoE function.

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.

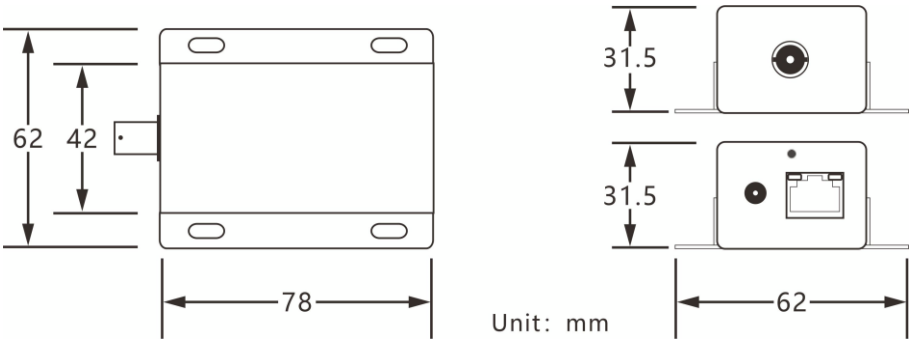
Features

- PoE over coax cable up to 500m
- Full duplex 100Mbps
- Powered by 48-56VDC or PoE switch/injector
- Transparent transmission

Dimension



Receiver Unit



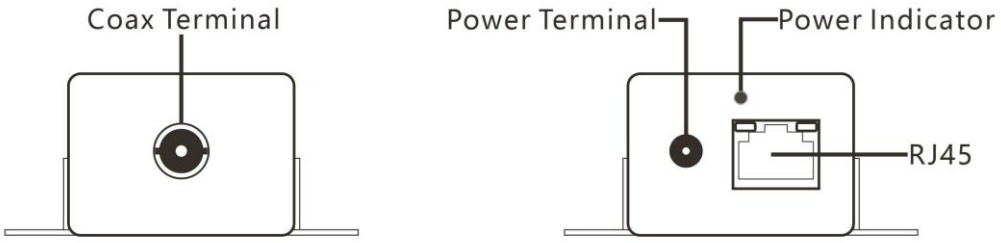
Transmitter Unit

Note: Dimension error value ±1 mm

Interface Description



Receiver Unit



Transmitter Unit

Technical Parameter

Category		Description
Power Input (Receiver)	RJ45/PoE Input	Standard 48～56VDC; IEEE 802.3af/at/bt
	DC Port Input	48～56VDC
	Power Consumption	≤1.5W / PC
Power Output (Transmitter)	RJ45/PoE Output	Standard 48VDC; IEEE 802.3af/at
	Power Consumption	≤1.5W / PC
Transmission / Rate	Bandwidth	Full duplex 100Mbps
Physical Characteristic	Dimension (L × W × H)	Receiver: 98×86.5×25mm Transmitter: 78×62×31.5mm
	Material	Aluminum Alloy
	Net Weight	Receiver: 168g Transmitter: 115g
Operating Environment	Working Temperature	-20℃～60℃
	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	Bandwidth (Mbps)	85.5	85.5
	PoE (W)	22.4	25.8
Distance 200 M	Bandwidth (Mbps)	84.6	84.6
	PoE (W)	20.7	21.5
Distance 300 M	Bandwidth (Mbps)	83.2	83.2
	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

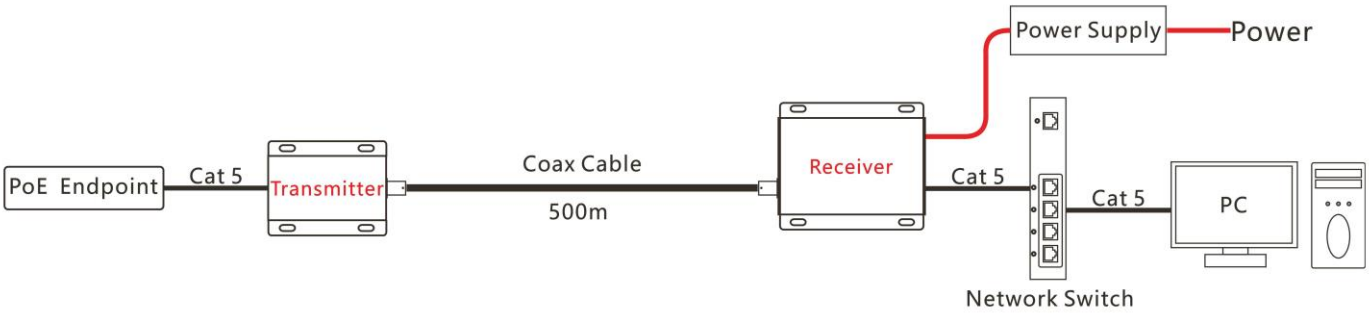
Receiver <- -> Transmitter		Cable 2×0.75 mm²	
Receiver power supply type		PoE 30 W	DC 48V (1.25A)
Distance 100 M	Bandwidth (Mbps)	84.2	84.2
	PoE (W)	21	25.3
Distance 200 M	Bandwidth (Mbps)	83.4	83.4
	PoE (W)	20.4	23.1
Distance 300 M	Bandwidth (Mbps)	82	82
	PoE (W)	19.6	20.5
Distance 400 M	Bandwidth (Mbps)	80	80
	PoE (W)	12	10.5
Distance 500 M	Bandwidth (Mbps)	79	79
	PoE (W)	11	9

Note:

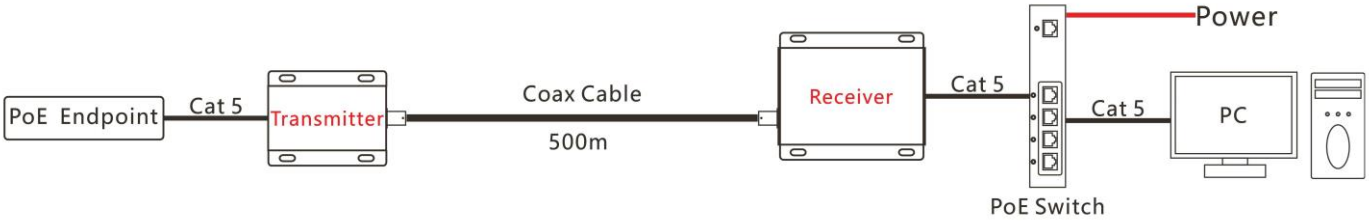
The actual data speed and PoE performance can vary by the environmental conditions and the cable qualities.

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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*Specifications are subject to change without notice.