



Model OT-PLC302POE / OT-PLC302-DC

PoE Extender

Product Datasheet



CE FC RoHS  

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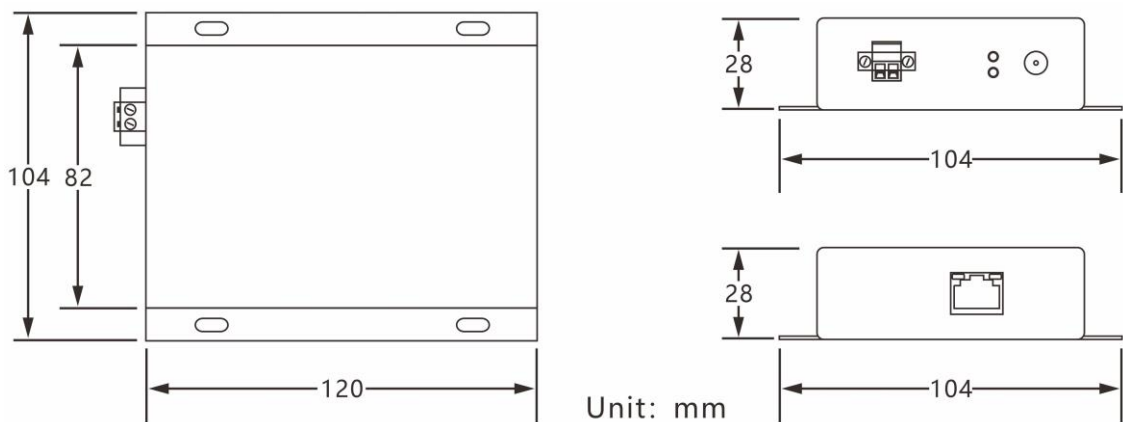
OT-PLC302POE / OT-PLC302-DC is a high-speed PoE Extender. It transmits Ethernet and PoE signal over single pair 2-wire cable. This device supports both PoC and PoE function.

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.

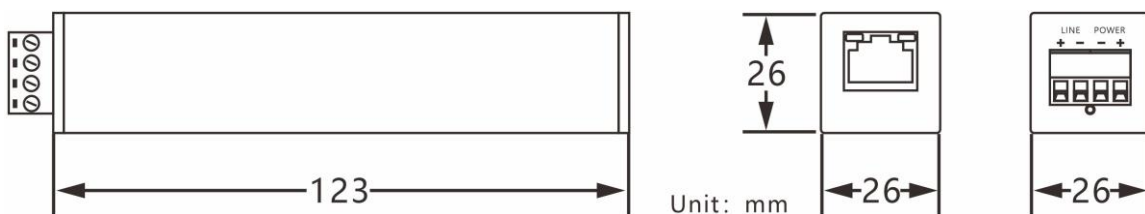
Features

- ◆ 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



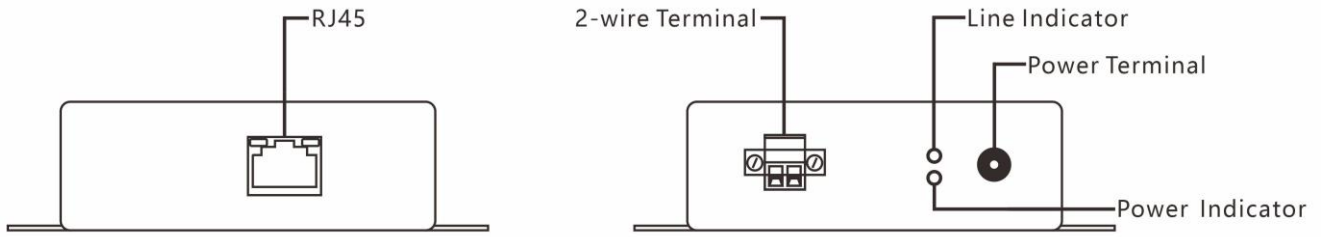
Receiver Unit



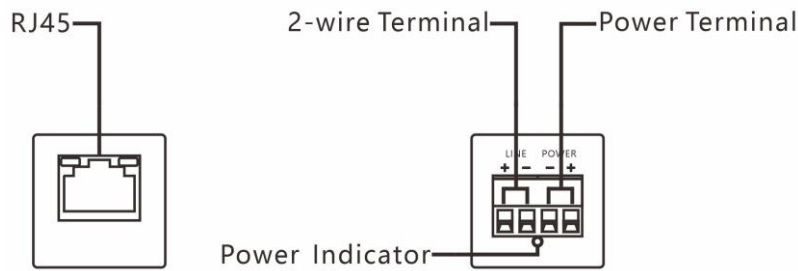
Transmitter Unit

Note: Dimension error value ± 1 mm

Interface Description



Receiver Unit



Transmitter Unit

Technical Parameter

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

Power, Bandwidth & Distance Table

| Receiver <- -> Transmitter | | Cable 2x0.75 mm ² | |
|----------------------------|------------------|------------------------------|----------------|
| 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 |

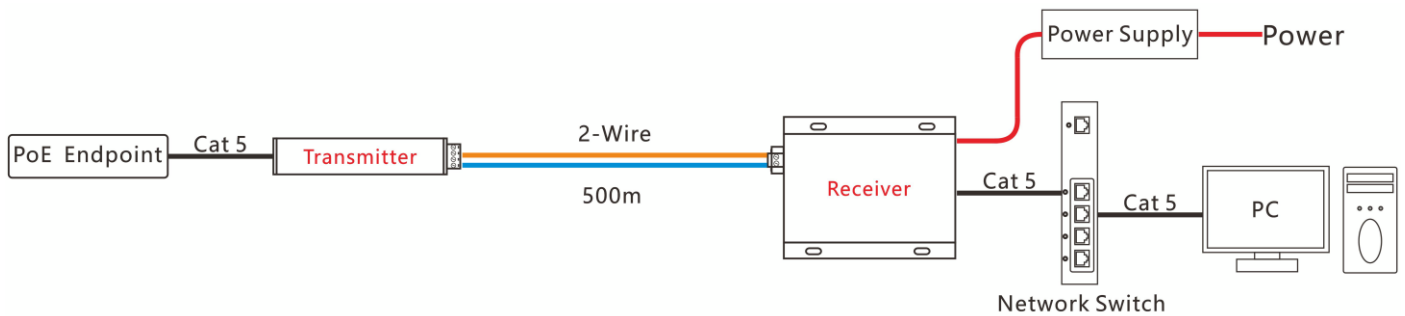
| Receiver <- -> Transmitter | | Coaxial Cable | |
|----------------------------|------------------|---------------|----------------|
| Receiver power supply type | | PoE 30 W | DC 48V (1.25A) |
| Distance 100 M | Bandwidth (Mbps) | 93 | 93 |
| | PoE (W) | 22.4 | 25.8 |
| Distance 200 M | Bandwidth (Mbps) | 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:

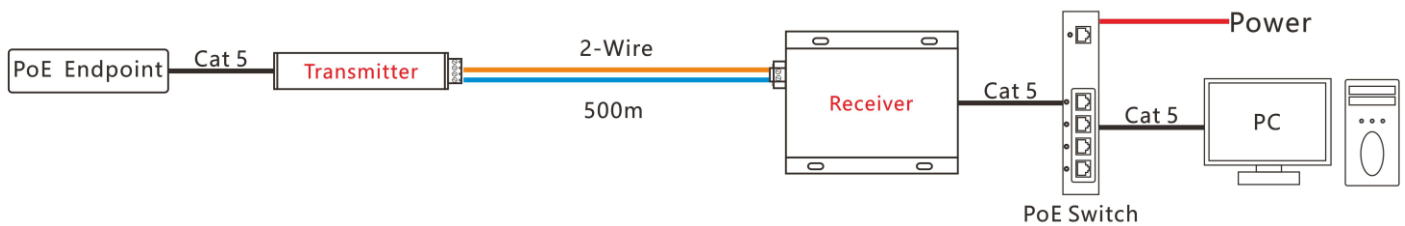
The actual data speed and PoE performance can vary by the environmental conditions and the cable qualities.

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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