



# **Model OT-L-2DSL**

## **Ethernet Extender**

### **Product Datasheet**



**CE FC RoHS**  

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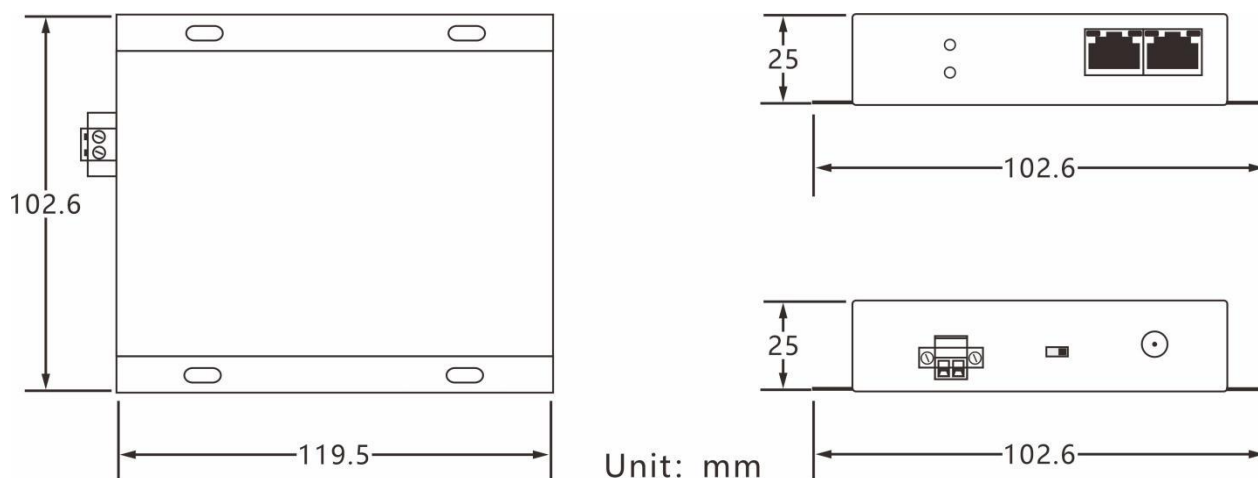
**OT-L-2DSL Ethernet Extender** is a network signal extension device, which is designed based on the latest VDSL2 technology. It offers a fast data transmission speed over existing copper telephone lines without the need of rewiring. The device features built-in support for ITU-T G.993.5 Vectoring technology, enabling it to work with vectoring-enabled DSLAMs to eliminate crosstalk interference and enhance the maximum line bandwidth over existing copper infrastructure.

**Note: The IP address 192.168.11.1 is assigned to the OT-L-2DSL device. Please avoid using this address to prevent IP conflicts.**

## Features

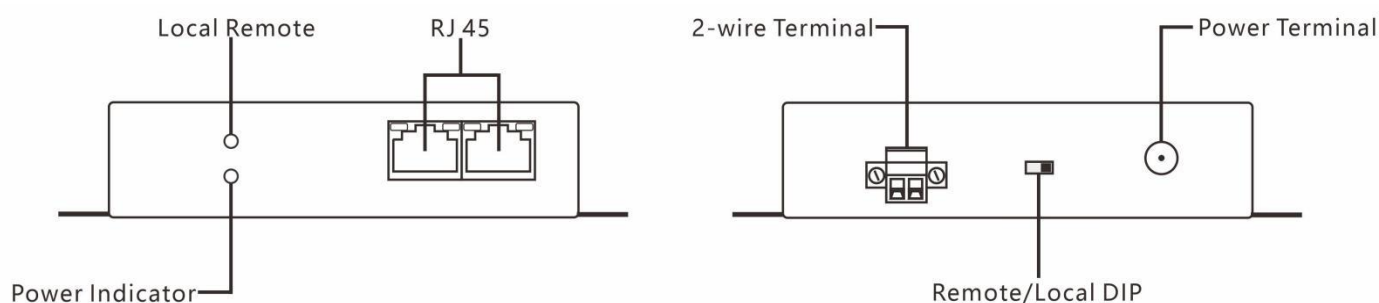
- ◆ Max transmission distance can reach 3,000m
- ◆ Max transmission rate can reach: Up 80Mbps/Down 80Mbps
- ◆ Support audio signal transmission over cables simultaneously
- ◆ Plug and play, transparent transmission, network rate adaptive

## Dimension



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

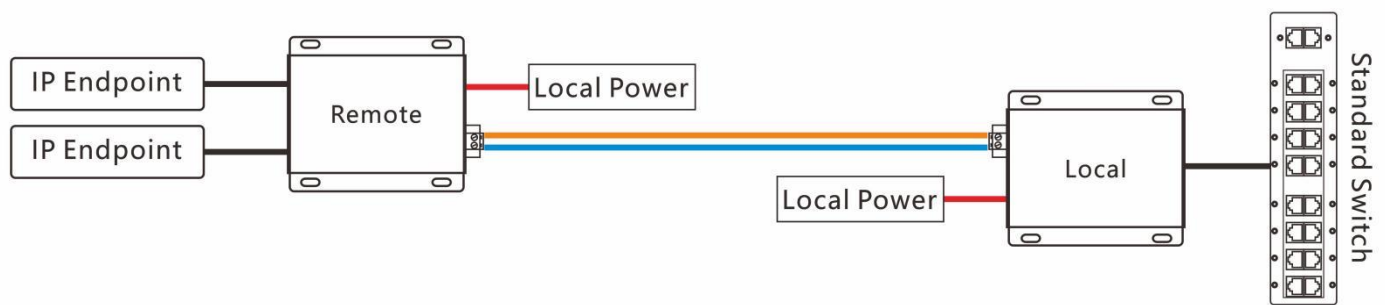
## Interface Description



## Technical Parameter

| Categories               | Description                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage Range            | 12~24VDC                                                                                                                                       |
| Power Consumption        | ≤3.5W/PC                                                                                                                                       |
| Transmission Rate        | Up Link 80Mbps<br>Down Link 80Mbps                                                                                                             |
| Physical Interface       | 2 x RJ-45 10/100/1000Mbps auto-negotiation<br>1 x 2P Terminal<br>1 x DIP Switch<br>1 x DC Power Input Terminal                                 |
| Cable Connections        | RJ-45 (Ethernet): Category 3~6 UTP<br>2P (Line): 2 core copper wire                                                                            |
| LED Indication           | 1 x Power LED<br>2 x Link/Active indicator for Ethernet port<br>2 x Link/Active indicator for Line port<br>1 x Local/Remote Mode indicator LED |
| VDSL2 Line Code          | Discrete Multitone (DMT) Modulation                                                                                                            |
| VDSL2 Transmission Mode  | Packet Transfer Mode (PTM)                                                                                                                     |
| VDSL Profile             | ITU-T G.993.2 VDSL2 Profile 17a/30a                                                                                                            |
| Standard Compliance      | IEEE 802.3、IEEE 802.3u                                                                                                                         |
| Lightning Protection     | 4KV 10/700us, Common Mode Lightning: Level4                                                                                                    |
|                          | 1KV 10/700us, Differential Mode Lightning: Level1                                                                                              |
|                          | Executive Standard: IEC61000-4-5                                                                                                               |
| Electrostatic Protection | 1b Contact Discharge Level 2                                                                                                                   |
|                          | 1b Air Discharge Level 2                                                                                                                       |
|                          | Executive Standard: IEC61000-4-2                                                                                                               |
| Dimensions (L×W × H)     | 119.5 × 102.6 × 25mm                                                                                                                           |
| Material                 | Aluminum Alloy                                                                                                                                 |
| Net Weight               | 185g/PC                                                                                                                                        |
| Working Temperature      | -40℃~60℃                                                                                                                                       |
| Humidity                 | <95% (Non-condensation)                                                                                                                        |

## Installation Diagram



## Bandwidth & Distance Table

Ethernet Extender supports high speed network data signal transmission. Transmission rate will differ in line with different cables. With the cable length increasing, the transmission rate will decrease accordingly. Please refer to the following testing data.

| Distance (m) | Total Bandwidth (Mbps) |      |
|--------------|------------------------|------|
|              | Up                     | Down |
| 300          | 77                     | 77   |
| 600          | 60.5                   | 58   |
| 900          | 46                     | 42   |
| 1200         | 31                     | 27   |
| 1500         | 20                     | 17   |
| 1800         | 12                     | 14   |
| 2100         | 10                     | 10   |
| 2400         | 9                      | 7    |
| 2700         | 7.5                    | 5.6  |
| 3000         | 6                      | 4    |
| Cable: AWG24 |                        |      |

**Note:**

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



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\*Specifications are subject to change without notice.