



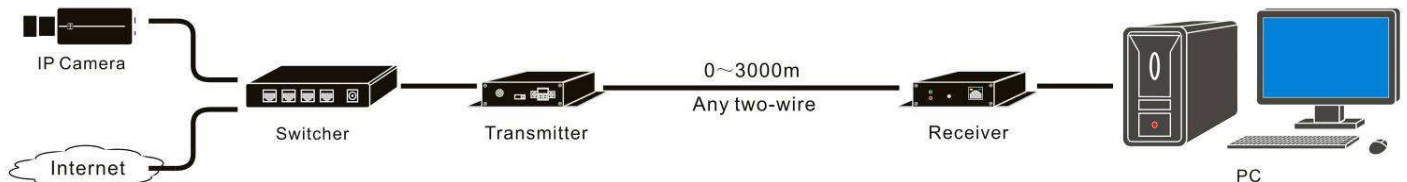
Product Description

SJ-L-DSL is a network signal extension device, which consists of remote unit and local unit. It can transmit network signal via two-wire such as **CAT5, telephone or coaxial cable, etc.** The distance can reach **3,000m** and max bandwidth can be up to **148Mbps**. Meanwhile, it also can transmit telephone signal when transmitting network signal (**adding an additional splitter**). This device can be widely applied in network signal extending system, network security system, network information distribution system, network renovation and expansion systems, railway, urban traffic, mining and telecommunication, etc.

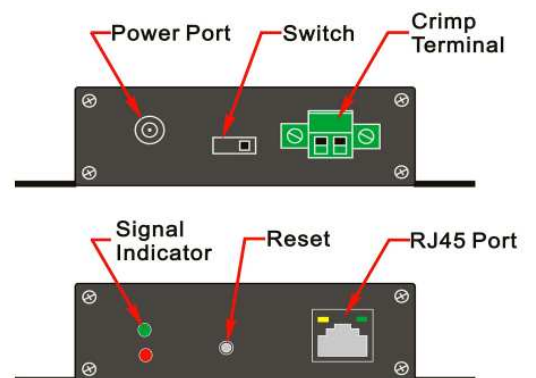
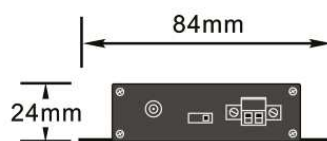
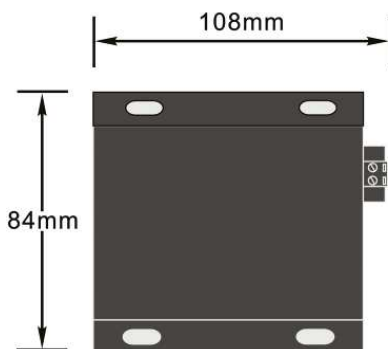
Product Features

- ◆ Long distance transmission as far as 3,000m.
- ◆ Max transmission rate reach 148Mbps, 1,200m can reach 30Mbps
- ◆ Easy installation, CAT5, telephone or coaxial cable are available
- ◆ Communication rate adaptive, no need to adjust
- ◆ Excellent real-time function, strong anti-interference

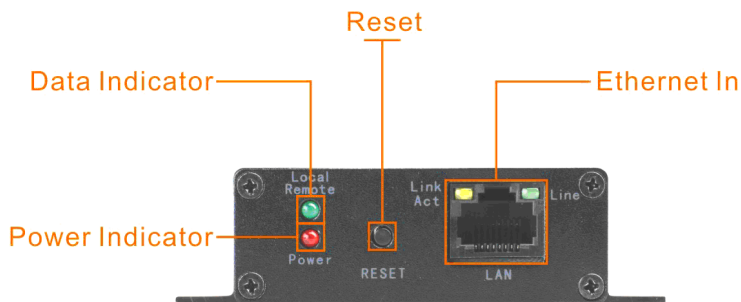
Connection Diagram



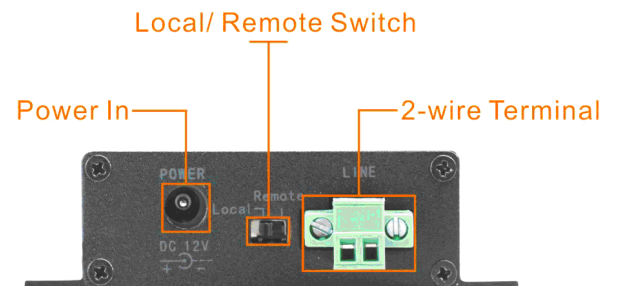
Terminal and Dimension



Terminal Instructions



Transmitter (A)



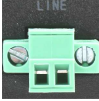
Receiver (B)

Installation Instructions

- Set the local and remote device through Local/Remote

switch . Status Indicator  is only on for the local device.

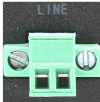
- Connect the remote LAN port  to the network

equipment RJ45 output. LINE terminal  is connected to two-wire.

- Connect the low-voltage power supply (12VDC) to the

port  of remote side, POWER

indicator  is on, LINK indicator  is on.

- Connect the other end of the two-wire cable to the local LINE terminal  , LAN port  is connected to the

network equipment (such as PC) through network patch cord.

- Connect the low-voltage power supply (12VDC) to the port

 of local side, POWER indicator  is on, LINK indicator  is on.

- When network transmission is smooth, the devices

automatically try to connect. The LINE indicator  quickly flash. Then it shows that network signal transmission is normal.

- The RESET button  is used when network transmission is not smooth. It only can recover the transmission channel of the devices.

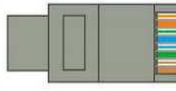
Transmission Rate Parameters

Cable Standard	Transmission Distance	Dissymmetry			Symmetry		
		Downlink Rate	Uplink Rate	Total Rate	Downlink Rate	Uplink Rate	Total Rate
26AWG/ 0.4mm×2	15m	101 Mbps	45 Mbps	146 Mbps	69 Mbps	69Mbps	138 Mbps
	300m	91 Mbps	42 Mbps	133 Mbps	60 Mbps	74 Mbps	134 Mbps
	600m	56 Mbps	28 Mbps	84 Mbps	37 Mbps	52 Mbps	89 Mbps
	900m	36 Mbps	8 Mbps	44 Mbps	21 Mbps	31 Mbps	52 Mbps
	1200m	26 Mbps	3 Mbps	29 Mbps	14 Mbps	20 Mbps	34 Mbps
	2600m	4.5 Mbps	0.83 Mbps	5.3 Mbps	2.2 Mbps	3.5 Mbps	5.7 Mbps

Technical Parameters

Category		Description
Power	Available Voltage Range	12VDC
	Unit Power Consumption	<3W
Protection	Transmission Channel Lightening	4KV 10/700us, common mode lightning: Level 4
		1KV 10/700us, differential mode lightning: Level 1
		Executive Standard: IEC61000-4-5
	Product Electrostatic Protection	1a contact discharge Level 4
		1b air discharge Level 4
		Executive Standard: IEC61000-4-2
Reliability	MTBF	>30000 hours
Product Physical Characteristic	Dimensions (L × W × H)	108mm×84mm×24mm (including the terminal length)
	Material	Aluminum
	Color	Black
	Net Weight	0.5KG/ Pair
Operating Environment	Working Temperature	0℃～50℃
	Storage Temperature	0℃～85℃
	Humidity	<95%

Accessory and Cable Tips

	1	Orange/white
	2	Orange
	3	Green/white
	4	Blue
	5	Blue/white
	6	Green
	7	Brown/white
	8	Brown

Use EIA/TIA568B standard to make RJ45 terminal



Power Adapter: DC12V/1A (Optional)



Telephone Line: CAT3 telephone cables or above



Twisted Pair: CAT5 or above



Coaxial Cable: RG 59 or above

Product Use Notes

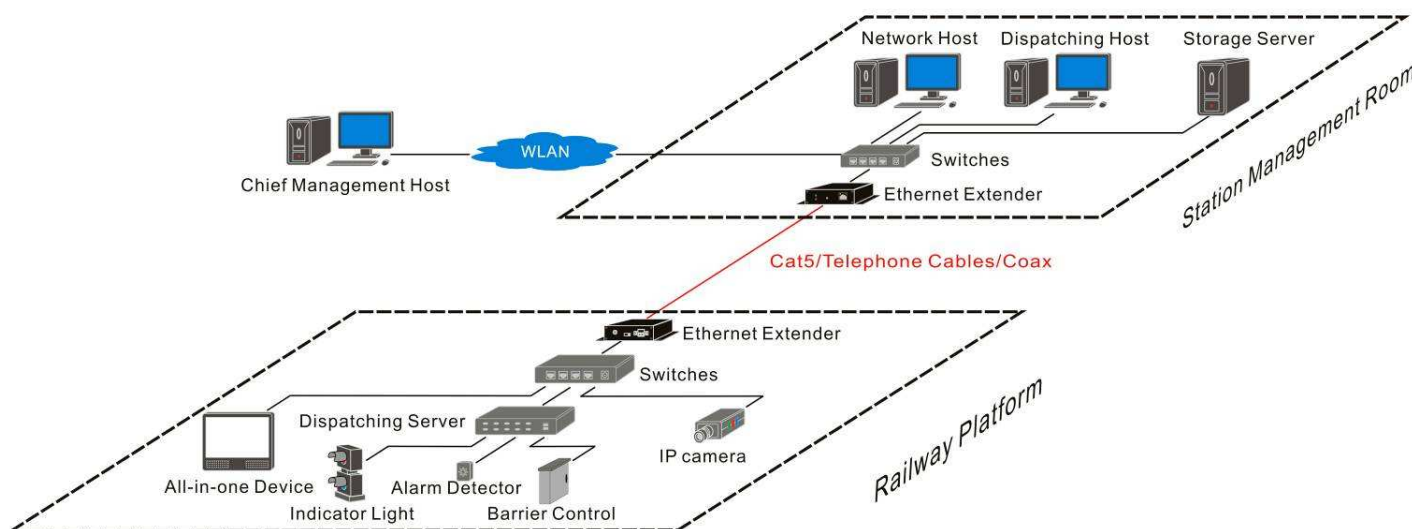
- 1) Signal transmission cable must be the copper cable. Other material cables will cause the decrease of signal transmission quality and distance.
- 2) Transmitting network data signal by mixing twisted pair, telephone line connection is forbidden.
- 3) This device has no waterproof design. Please use the product in dry environment.
- 4) Please choose matching power supply specification (12VDC /1A) to supply power for devices respectively.
- 5) Check the local unit and remote unit carefully before use.
Set remote and local device by the switch. Remote and local unit could be optionally installed. But it does not work if setting local + local or remote + remote.
- 6) Long-distance cable connections must be standard connection method, such as welding or use connectors.
- 7) If the devices fail, you do not disassemble or repair, please contact us timely.

Simple Fault Cases

Panel Indicator	Feature	Phenomenon
POWER	ON	Power supply work smoothly.
	OFF	Power supply can not work smoothly.
LINE	ON	The line has been activated
	OFF	The line has not been activated
	Flashing	The line is trying to activate.
LINK	ON	Correct connection of Ethernet interface.
	OFF	Disconnection of Ethernet interface.

Tips: If devices activation fails, the devices will automatically re-try to activate after an intervals. In this interval of time (about 1 minute), LINE indicator is off.

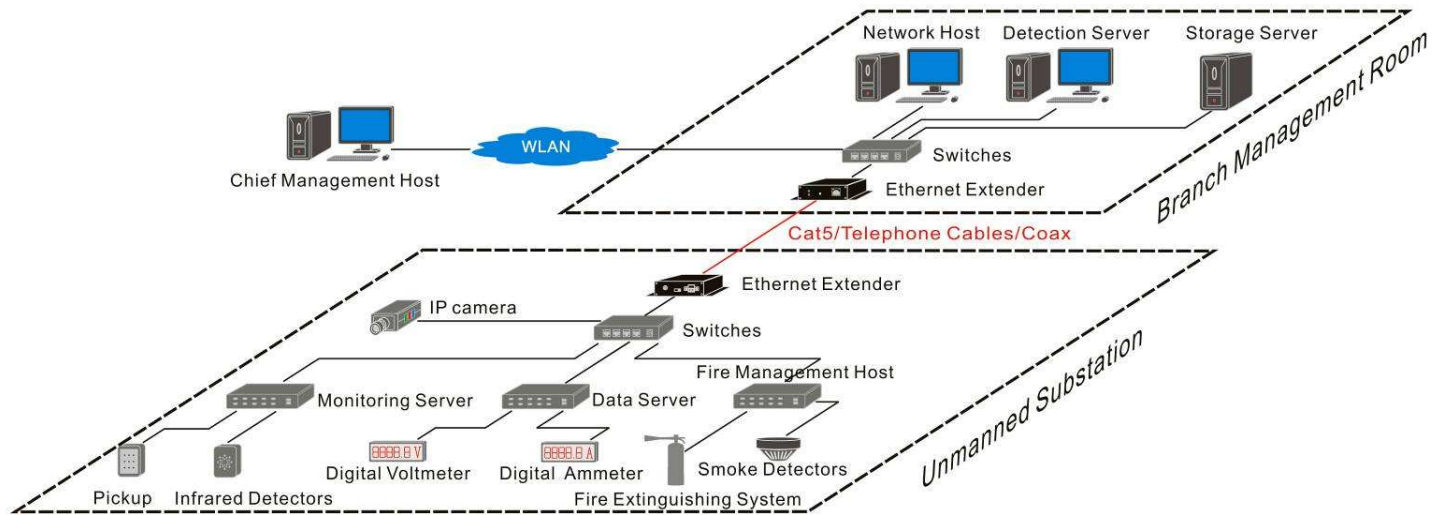
Application Field Cases



Railway System Application:

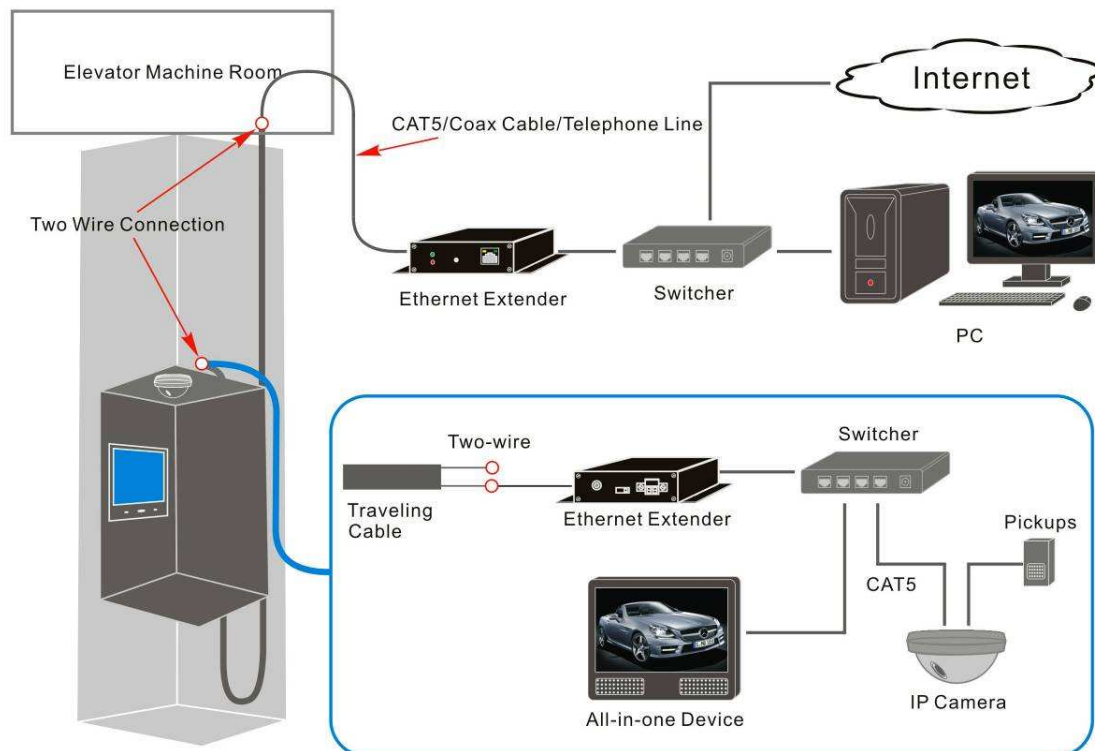
In railway system, there are many systems. IP surveillance and network data transmission become more and more important. It refers to digital information platforms, network data dispatching and IP surveillance, which need excellent transmission solution. Ethernet Extender is very good choice.

Application Field Cases



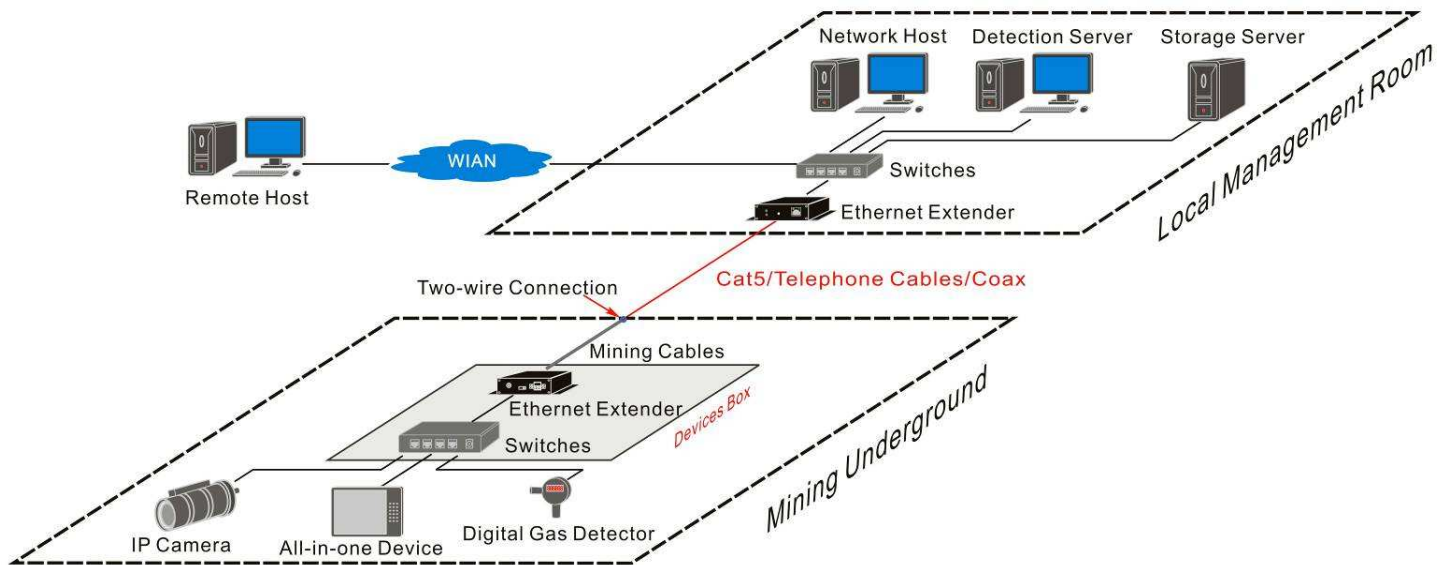
Electric Power System Application:

With rapid development of the electric power system, the substations of human operating equipments gradually become unattended and intelligent trend. Now Ethernet Extender is widely used in electric power system.



Elevator System Application:

Ethernet Extender is widely used in elevator. We can transmit network data signals with two-wire in accompanying cables. The only thing customers do is to install Ethernet Extender at both sides of the cables. It is perfect for IP surveillance and analog system upgrade in elevator. Besides, network information publishing platforms in the elevator also need the support of Ethernet Extender.



Mining System Application:

IP surveillance and network data transmission in mining system are paid more and more attention. Traditional mining cables resources are suitable for Ethernet Extender use. You can easily achieve high-speed network data signal transmission by installing Ethernet Extender at both sides of the cables. It is very worthwhile to promote.

Attentions: The device may be a little hot at work. It is normal phenomenon. Specifications are subject to change without notice. Thank you for choosing products of Shaoxing Ourten Electronics Co., Ltd. For more details, please pay attention to corporate website: www.ourten.com.