

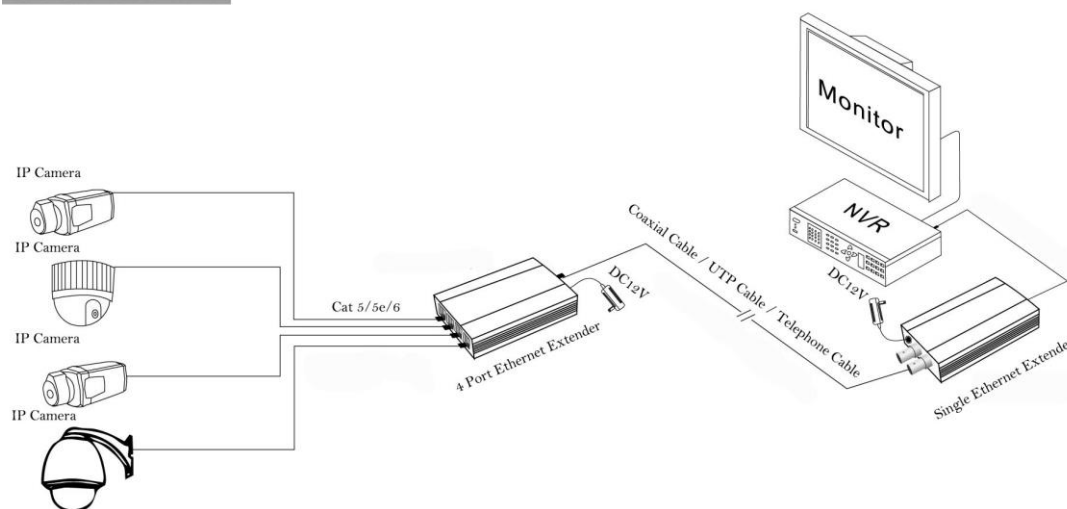
EoC Ethernet Extender

◆ Description

The EOC Ethernet Extender series consists of Single and multi-channel. They both use Coaxial Cable or Twisted Pair cable to transmit the Ethernet Signal. The EOC Ethernet extender can extend the distance of Ethernet signal transmission up to 2Km. It is very suitable for the network video surveillance engineering and other long distance Ethernet signal transmission.

Use multi channel together with single channel networks extender, they can use one coaxial cable or one Cat5 cable to transmit multiplex signals.

EoC Ethernet Extender



◆ Features

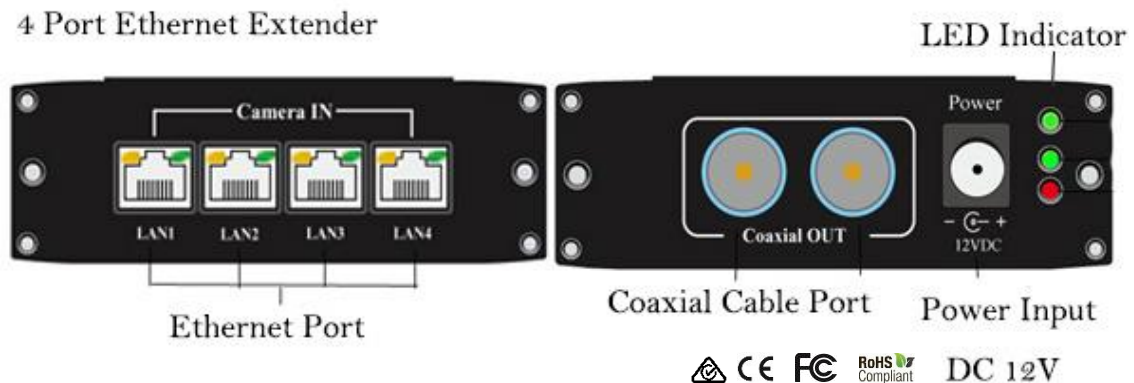
- ◆ Use coaxial cable to transmit Ethernet signal, maximum distance up to 2km;
- ◆ Power: DC 12V
- ◆ Variety transmission medium, coaxial cable , telephone cable or UTP cable , Extend distance: Max extend distance up to 2000m
- ◆ Network delay less than 1ms;
- ◆ Standard: in line with IEEE802.3 10Base-T and IEEE802.3u100Base-TX Ethernet standard agreement
- ◆ Operation: use exist internet, easy installation, plug& play

⚠ Notice

1. Transmission distance is related to the connecting cable. To get better transmitting image, please use standard UTP Cat 5/5e/6 cable.
2. Network speed decreases along with the increasing transmission distance.
3. At the point to multipoint use, the highest rate of 100Mbps, do not connect too many Ethernet Extender equipment's at the same time.

◆◆◆◆◆◆◆◆◆◆ 4 Ports Ethernet Extender

◆ Panel Diagram



LED Indicator State:

- Coaxial: 1 green light indicates that the coaxial normal work;
- Ethernet: 1 green light indicates that the EOC Network normal work;
- Power: 1 red light indicates that the Power normal work;
- Ethernet (LAN1-4) Port: 1 green indicates that the EOC Network normal work;
- 1 yellow indicates that the RJ45 normal work;

◆ Installation Step

Please check below device and accessories before installation, if there are missing, please contact with your supplier.

1. 4 Port Ethernet Extender	1pcs
2. User Manual	1pcs

Please follow the following steps

- ◆ Please chose Single EoC Ethernet Extender together with 4 Ports Ethernet Extender;
- ◆ Need to select the Signal Ethernet Port Master working on the electrical;
- ◆ Please turn off the signal source and the device's power, installation with power on may damage the device;
- ◆ Use network cable to connect IP camera with E-Link1.2.3.4 of 4 port Ethernet Extender, and connect E-Link of Signal Ethernet Extender with NVR or other device;
- ◆ Use Coaxial cable or UTP cable/ telephone cable to connect both BNC of 4 Port and Signal Ethernet Extender transmission port;
- ◆ Make sure every network device has power supply and work normally.

4 Ports Ethernet Extender



◆ Specification

Item			Description	
Power	Adaptive voltage arrange		12V DC	
	Power Consumption		<6W	
Signal transmission properties and port	Ethernet communication port		4 pin RJ45 plug	
	Transfer port		BNC	
	Signal type		High speed Ethernet signal	
	Transmission rate		100Mbps(max)	
Transmission rate (26AWG)	Distance	Total transmission rate (max)	Uplink transmission rate (max) (max upstream)	Downlink transmission rate (max)
	300m	134Mbps	65Mbps	69 Mbps
	600m	60Mbps	25 Mbps	35 Mbps
	900m	30Mbps	10 Mbps	20 Mbps
	1200m	11.9Mbps	0.9 Mbps	11 Mbps
	1500m	4.5Mbps	0.5 Mbps	4 Mbps
LED indicator	Power LED		1pc (red)	
	Coax Connection LED		1pc (green)	
	Ethernet LED		1pc (green)	
	Terminal LED		8pc(on RJ45 Port)	
Protection Level	Surge Protection		2KV(different-mode) 4KV(common-mode) Per:IEC61000-4-5(GB/T17656.5)	
	ESD		1a contact discharge electricity level 3 1b air discharge electricity level 3 Per: IEC61000-4-2	
Environmental	Operating Temperature		0℃~50℃	
	Storage Temperature		-20℃~70℃	
	Dimension (Non-condensing)		0%~95%	
	Dimension		125mm*83mm*25mm	
	Material		Aluminum	
	Color		Black	
	N.W.		220g	
Stability	MTBF		>30000H	

◆◆◆◆◆◆◆◆◆◆ 4 Ports Ethernet Extender

◆ Problem Examination

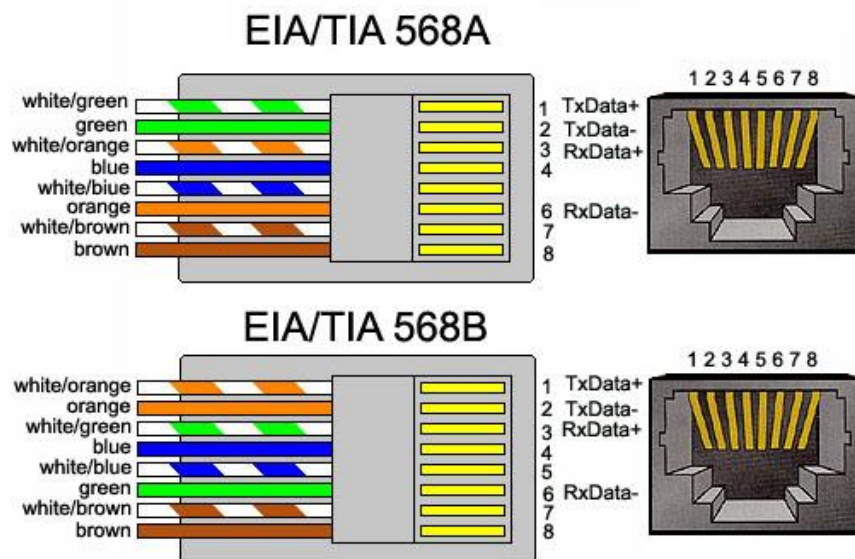
Please remove the problem according to the following steps

- ◆ Please confirm if the device installation is correct;
- ◆ Please confirm if the RJ45 reach the standard of EIA/TIA568A OR 568B
- ◆ The maximum transmission distance depends on the signal source and cable quality, please do not over the maximum transmission distance;
- ◆ Please replace a normal device with a failure one to check if the device is broken;
- ◆ If the problem still exist , please contact the factory.

◆ RJ45 Making Method

Instruments to be used: wire crimper , network tester , wire sequence of RJ45 plug should conform with EIA/TIA 568A or 568B

- ◆ Please remove 2 cm long the insulating layer , and bar the 4 pairs UTP cable
- ◆ Separate the 4 pairs UTP cable and straighten them
- ◆ Line up the 8 pieces of cables per EIA/TIA 568A or 568B
- ◆ Cut off the cables to leave 1.5cm bare wire
- ◆ Plug 8 cables into RJ45 plug, make sure each cable is in each pin
- ◆ Use the wire crimper to crimp it
- ◆ Repeat above 5 steps to make the another end
- ◆ Using network tester to test the cable whether it is working



⚠ Notice

- ◆ When choose RJ-45 make sure if one end is EIA/TIA568A, the other end should also be EIA/TIA568A
- ◆ When choose RJ-45 make sure if one end is EIA/TIA568B, the other end should also be EIA/TIA568B