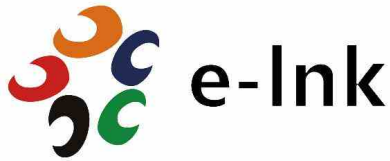


**1CH Ethernet over Coaxial Converter with PoE+**[www.e-linkchina.com](http://www.e-linkchina.com)**Model: LNK-IP1200A Series****Overview**

The LNK-IP1200A Ethernet over Coaxial Converter is a new designed Ethernet Extender Device. This Device is designed to extend Ethernet Network signal and Power over existing coaxial cable, and able to live transmit multi-channel Power + Network data signal, the Max distance is up to 1200M(Power: 300M). 2pc BNC design, support connect 2 channel branch line at same time. The total power of electricity is 100W, each BNC max is 50W. Network max baud-rate is up to 100Mbps. It has excellent lightning protection and Anti-interference. Inbuilt Industry level intelligent auto-monitoring module (this function is optional), this function can make the device intelligent detect circuit individually, all time automatically detect network communication link exceptional situation. If any link is abnormal, it make the device recover to link the communication automatically, ensure the network communication link data

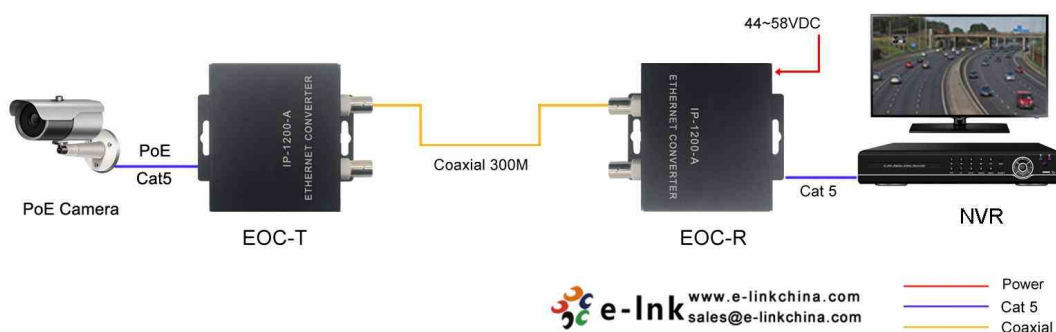
transmission stably. Really realize never loss network connection, never crash industry network transmission. Guarantee the security of surveillance zone. These series products are widely used in CCTV surveillance and remote network extension.

## Features

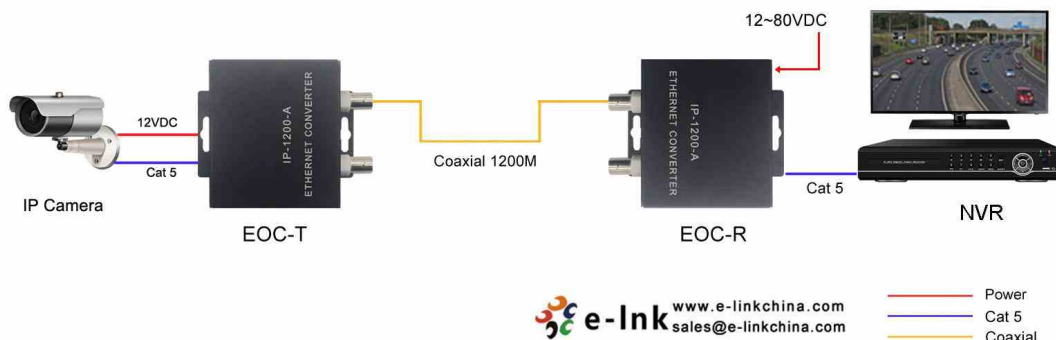
- Transmit 10/100 Mbps Full Duplex Ethernet up to 1200m
- Transmission Media: Coaxial Cable(Best), 586B, CAT5e/6
- Input Voltage: DC12V~80V (POE: DC44V~58V).
- Support Power Over Coax & Power over Ethernet at same time.
- 2pc BNC design, support to connect Max. 7 channels branch line
- Operation: Use the existing network, easy to install, Plug & Play. Convenient and efficient.
- Code Standard: abide by IEEE802.3 10/100 base-TX Ethernet standard protocol
- Advanced 128-bit AES encrypted transmission and PoE+ power technology
- Excellent Protection: Built-in transient protection; industrial temperature range. Excellent lightning protection and strongly Anti-interference, surge protection.

## Application

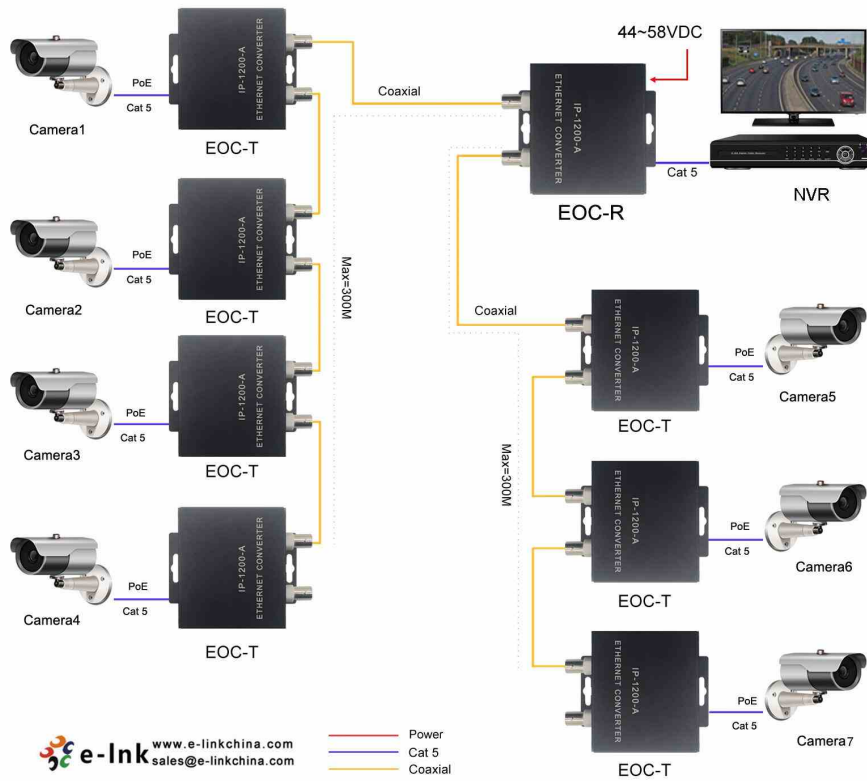
### I. Provide PoE Power Supply for front-end PoE device (Transmission Distance: 300m)



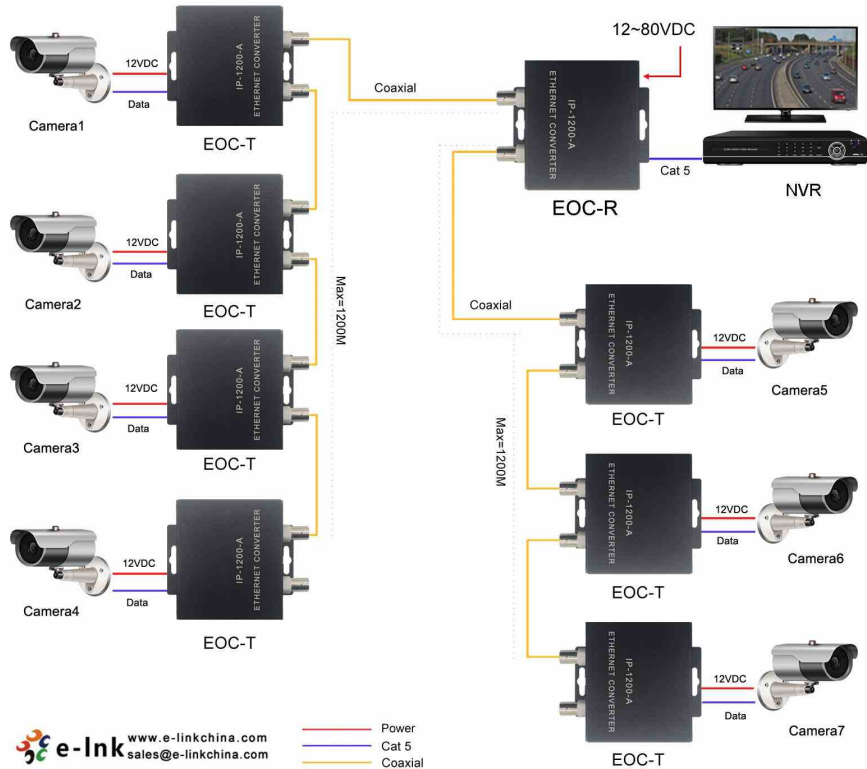
### II. Without PoE (Transmission Distance: 1200m)



## III. Daisy-chain Connection with PoE



## IV. Daisy-chain Connection without PoE

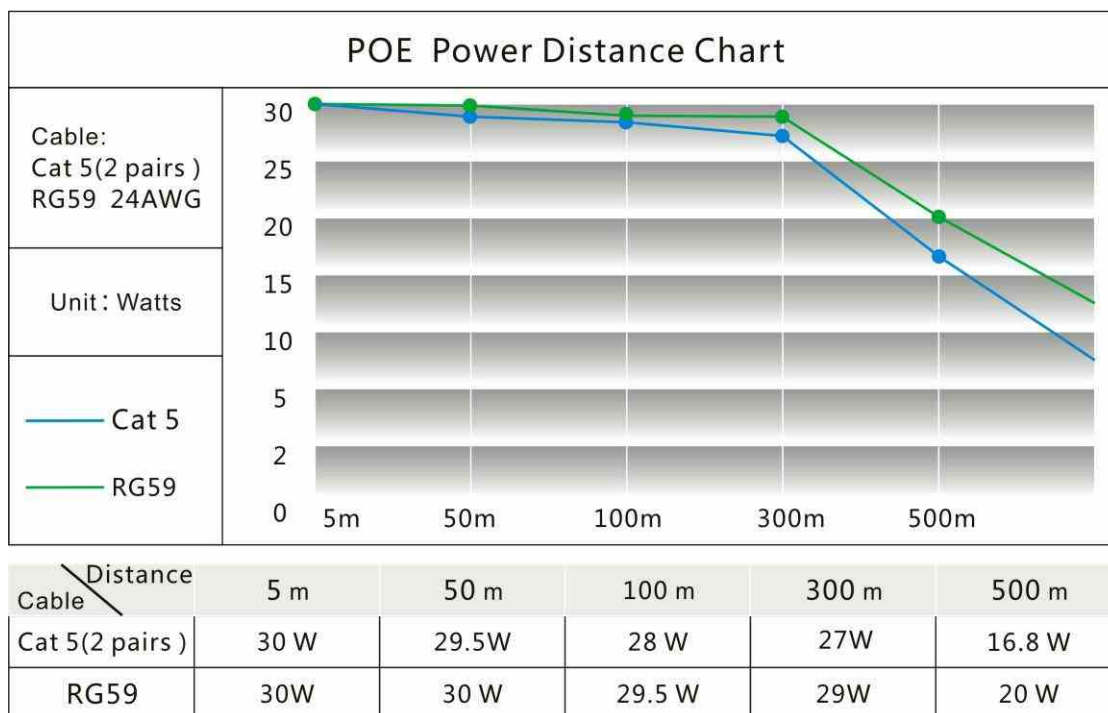


## Technical Indexes

Technology	Standard	HomePlug AV IEEE802.3 10/100 Ethernet (100Mbps) IEEE802.3U Fast Ethernet		
Encryption Algorithm	Algorithm	128-bit AES		
Power	Supply mode	Power adapter		
	Voltage range	DC12V~80V (PoE: DC44V~58V)		
	Consumption	<2W		
Ethernet Interface	Port	RJ45		
	Signal Type	10/100Base-Tx		
	Distance	100M (Max)		
Coaxial Connector	Port	BNC		
	Transmission rate	80Mbps TCP, 90Mbps UDP		
	Distance	1200M (Max)		
Power Indicator	LED Status Indicators	RED (Power On: keep lighting; Power Off: lighting off)		
Coax Indicator	Cable Link indicator	GREEN (Flicker: signal transmission)		
RJ45 Indicator	PoE indicator	YELLOW (PoE on: keep lighting; Power off: lighting off)		
	Network indicator	GREEN (Link: keep lighting; Signal transmission: Flicker)		
Signal and Connector	Ethernet	1xRJ45		
	Coax	Female BNC		
	Transmitting Signal	Fast Ethernet		
Transmission Distance	Without PoE	1200m		
	With PoE	300m		
Distance and Data Rate	Distance	Coaxial Cable 75-5	Cat5e	Telephone Line
	300m	91Mbps	91Mbps	65Mbps
	600m	85Mbps	78Mbps	55Mbps
	1000m	78Mbps	65Mbps	35Mbps
	1200m	50Mbps	41Mbps	25Mbps
Protection	Surge Protection for Transmission Channel		2KV(differential mode) 4KV(common mode)	
			Standard: IEC61000-4-5	
	Electrostatic Protection for whole device		Contact discharge level 3	
			1b air discharge level 3 Standard: IEC61000-4-2	
Working environment	Working temperature	0~55℃		
	Storage temperature	-20~70℃		
	Relative Humidity	0~95%(no condensation)		

Mechanical	Dimension (W×H×D)	78mm×70mm×21mm
	Weight	0.15KG
	Material	Metal
	Color	Black

### Power Loss Diagram



Network & Power can be transmitted over coaxial cable. The total PoE power output is 30W(at) and it can be attenuated when transmitting through cable. Distance is longer, attenuation is more.

Power loss and attenuation differs from the cable types. The above PoE power distance chart is just for your reference.

### Ordering Information

LNK-IP1200A	Ethernet over Coaxial Converter, 1200m transmission distance, including Master and Slave, not including power supply adapter
LNK-IP1200AP	Ethernet over over Coaxial Converter with PoE+, 300m transmission distance, including Master and Slave, not including power supply adapter