IP/PoE CABLING TRANSMISSION

ITEM NO.: IP03P PoE Extender over Coax/Two Wire

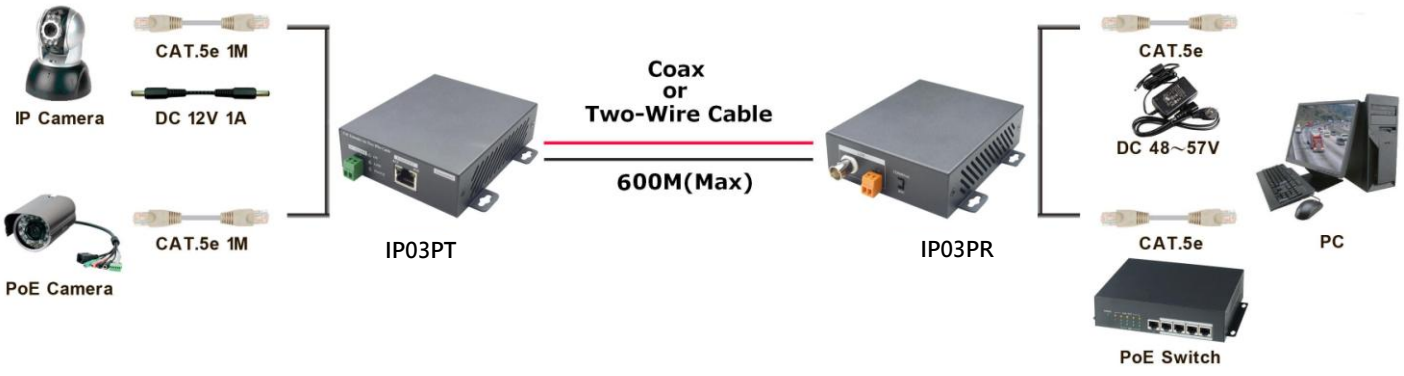
IP03P PoE Extender is designed to send and extend Ethernet network with PoE can be established using existing cables up to 600M. You can use Coax cable either any two-wire cables (UTP cable, telephone line, antenna cable, or bell wire) that is no longer in use to connect a 10/100Mbps PoE device, IP telephone, PC…etc without having to lay any new cables. Extended pass through PoE to allow a single PoE source, such as a PoE network switch (IEEE 802.3af/at) to provide power to both TX/RX and the IP/PoE camera use. It is perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos and many more.

IP03P PoE Extender over Coax/Two Wire

- Extend POE signal up to 600M, Ethernet or any TCP/IP devices up to 1000M.
- Ethernet and PoE data over coax or any two wire cables (UTP, telephone, bell, alarm, power cables.
- Support 10/100 Mbps transmission rate.
- Power source either from PoE Switch or external DC power adapter option. (order separately)
- Provides pass-through PoE up to IEEE802.3at 30W.
- Provides DC12V 1Amp power to camera.
- Support high power PoE to PTZ cameras at long distances.
- IP03P Power Source Option Model:
  DC48V 40W power adapter: SWP480830
  DC56V 70W power adapter: SWP551260
  High Power PoE Injector/ PoE Switch: IP06I, IP06H

Installation View:

1. Connect IP03PT, IP03PR with any two wire cable at both ends before powering.
2. Power input source could use PoE Injector/Switch either optional DC 48V, DC56 power adapter to IP03PR unit and camera use.



Different Two Wire Cables Distance Chart for Reference:

Please note the cable quality, length and diameter of two wires used all have an influence on the transfer of data and the PoE output.

CABLE	Distance	Power Input	Data Rate	PoE Output	DC 12V Output
Coax Cable RG59	500	PoE 54V	71.2Mbps	11.8~12.4W	1000mA
		DC 55.5V	71.2Mbps	12.8~13.5W	1000mA
		DC 48V	71.2Mbps	8.7~9.2W	1000mA
	1000	DC 55.5V	56Mbps	N/A	N/A
		DC 48V	47.5Mbps	N/A	N/A
	1500	PoE 54V	40Mbps	N/A	N/A
		DC 55.5V	48Mbps	N/A	N/A

CABLE	Distance	Power Input	Data Rate	PoE Output	DC 12V Output
Coax Cable RG6U	600	PoE 54V	70.5Mbps	11.8~12.4W	1000mA
		DC 55.5V	73Mbps	8.7~9.2W	1000mA
		DC 48V	72Mbps	8.2~8.7W	1000mA

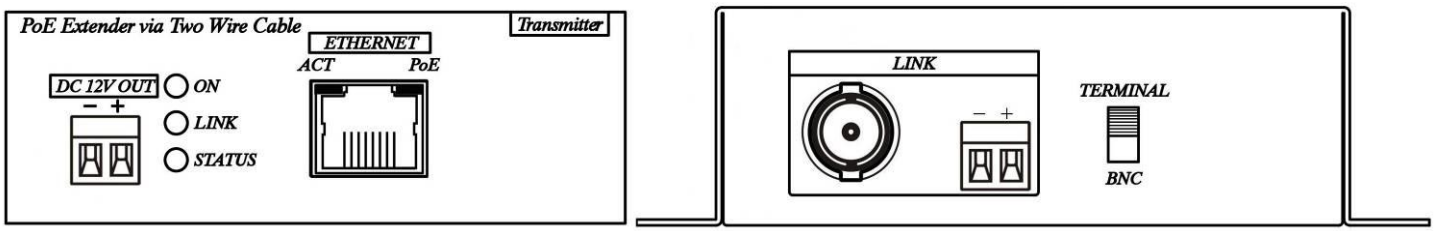
CABLE	Distance	Power Input	Data Rate	PoE Output	DC 12V Output
CAT.5e Cable 4 Pairs	600	PoE 54V	59Mbps	13W	900mA
		DC 55.5V	68Mbps	16.5~17.5W	1000mA
		DC 48V	60Mbps	13W	900mA
	1000	PoE 54V	41Mbps	N/A	N/A
		DC 55.5V	44Mbps	N/A	N/A
		DC 48V	42.5Mbps	N/A	N/A

CABLE	Distance	Power Input	Data Rate	PoE Output	DC 12V Output
Telephone Cable 0.65mm	200	PoE 54V	68Mbps	12W	900mA
		DC 55.5V	80Mbps	18.5~19.5W	1000mA
		DC 48V	73Mbps	12W	900mA
	400	PoE 54V	68Mbps	8W	700mA
		DC 55.5V	80Mbps	11W	850mA
		DC 48V	73Mbps	4.8~5.4W	500mA

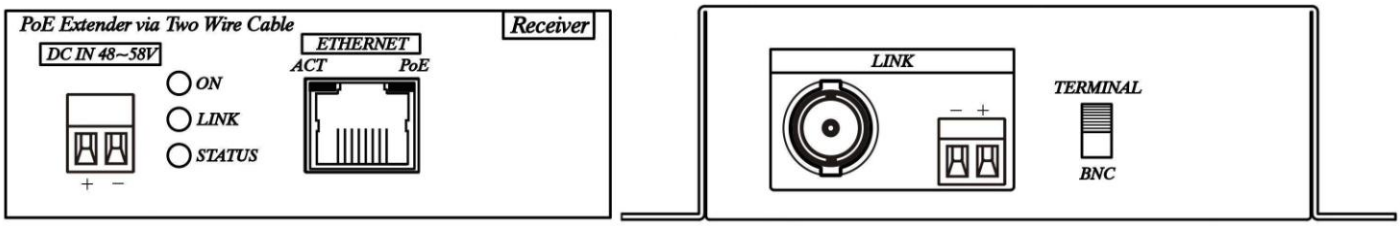
※ **Recommend external power adapter must use DC 48～57V 30W.**

Panel View:

IP03PT



IP03PR



LED Indication：

LED Indication	Status	Function
Green	ON	Power on
Red	ON	Linking failed
RJ45 (Green/Orange)	Green Flash	Linking and Data transmission
	Orange ON	POE transmission

Slide Switch Function：

BNC Use coax cable to send data and power
TERMINAL Use two wire cables to send data and power

* Make sure the IP03TX/IP03RX both terminal setting at same position.

Terminal Function：

IP03PR
Orange: Output DC48-DC58V & data transmission
Black: Input DC48-DC58V

IP03PT
Green: Output DC12V 1AMP (output power will be affected by the power cable thickness)
Orange: Receive IP03PR two wire power and data transmission.

Recommend cable：

RG59/6U COAX cable, CAT5e/6/7 UTP cable, telephone cable, power cable.
Please note the cable quality, length and diameter of two wires used all have an influence on the transfer of data and the PoE output.

Cable Define：

Data/Power +
Data/Power –

Caution:

1. Power output will be varied based on the power source input.

   IP03PR power input with two selections, but one time only could use one input
   ★ Once choose power adapter power input, it cannot accept PoE devices input.

   IP03PT power output with two selections, but one time only could use one method.
   ★ Once choose DC 12V 1A power output, it cannot use PoE output power supply.

2. The linking Coax cable or two wire cable all carried with power, using two wire installations, please pay attention the wiring polarity to avoid any damage.

3. IP03PT DC12V 1Amp output: the power output will be affected by the power cable thickness.

4. The power consumption of the product itself on IP03PT/IP03PR is 5.5W.

5. If use PoE injector/switch as power input source, recommend to use high power PoE IEEE802.3at in order to provide enough power to PoE devices or DC12V output.

6. The wiring must away from any equipment with electromagnetic wave in order to avoid transmission distance become shorter, i.e.: mobile phone, microwave, radio equipment, fluorescent lamp, power lines.

Package:

IP03PT x 1
IP03PR x 1
Screw Pack x 2
Rubber Pad x 2

Specifications:

ITEM NO.	IP03PT	IP03PR
RJ45 Interface	Data Transmission/ POE Output	Data Transmission/POE Input
Power, Data Input /Output	Slide switch: BNC or terminal block	
Distance	Ethernet: 1000 Meters, PoE: 600 Meters (Max) based on cables	
Power Input	Terminal Block orange color x1	Terminal Block black color x1
Input Voltage	PoE injector/Switch 802.3at/af PoE or DC 48V/DC56V power adapter	
Power output	Terminal Block green color x1	Terminal Block orange color x1
Output Voltage	x	DC12V
LED Indication	Power, POE, Ethernet, Status	
Protection	ESD Protection: 30KV, 1KA @ 8/20us	
Data Rate (Max)	Uplink：70Mbps , Downlink：71Mbps	Uplink：71Mbps, Downlink:70Mbps
Power Consumption	2.5W	3W
Temperature	Operation: -10 to 65℃, Storage: -20 to 70℃, Humidity: up to 95%	
Dimension mm	109.6 x 131.5 x 30	109.6x131.8x30
Weight g	280	

RoHS CE FC

Rev. B