

Fast Ethernet/PoE over Coax & 2-Wire cable

i-View's model EPoC-131xx Series Ethernet / PoE Extender system is a compact media converter that allows 10/100 Base-T Ethernet and IEEE802.3at/af, PoE+ power to be transmitted using virtually any kind of cable. It means that you can utilize a Coaxial cable or any two-wire cable (UTP, STP cable, Telephone line, bell wire and power cable for instance) for the Ethernet / PoE Transmission and also use in legacy installations where existing cable is re-deployed as part of an upgrade to IP cameras without having to lay any new cables or implement any other constructional measures. The EPoC-131xx Series Ethernet / PoE Extender is required at both ends of the cable, and it automatically configures itself as either the transmitter or the receiver. The significant additional benefit of the system is that, in addition to data, the power to operate PoE end devices can also be transferred via the two-wire cable. And now with PoE over 2-wire, you can deliver up to 50 watts of PoE power to the camera as well, eliminating the complexity of installing local power supplies. It is hard to predict or measure the length and quality of the installed cable, so it is very important to deliver continuous, reliable power for the new IP camera that the cable you are upgrading. However, thanks to EPoC-131xx Series Ethernet / PoE Extender's ultra low power design, even the RG-59 coaxial cable still can support a 15 watt to IP camera at the most range likely to be found in a legacy installation.

Friendly status indicator

The smart LED indicators provide an instant and easy-to-understand confirmation of network, power status and right across the cable, with no need to visit remote equipment site to check connections. And once connected, the LED indicator for power display instantly reaffirms that the actual power available to the camera is sufficient.

Add power easily

DC plug connections, or the option of using a PoE Hub source, You can use the power source from the PoE Hub or DC power adapter provides the last link in assuring continuous power delivery, without configuration or measurement required, installation of is as straightforward as plugging it in. If PoE is not available, or for an extra power boost at either end of the cable, just connect the optional power supply.

Features







- Transmit up to network speeds up to 150 Mbps*; distance Up to 4,920ft (1,500m)**.
- Re-use existing coax or two-wire cable for IP cameras.
- Adapter set to transfer via Ethernet and PoE using a two-wire or coax cable.
- Easy to install, no IP and MAC address configuration required.
- Built-in Watchdog can auto reconnect when system connection fails.
- Support any 10/100 Base-T Ethernet device, including IP cameras.
- Compliant IEEE802.3at/af standard, also support external power adapter for PoE.
- Instantly check network signals, link and power status with LED indicators.
- 128-bit AES encrypted communication for transient protection.

Note:

*The above test result table that is NO GUARANTEE of possible cable lengths, data rates and power transmission, as various physical factors are not within the area of responsibility of i-View. The nominal data rate, connection length and power transmission can only be individually tested and determined at the place of installation.

**The Power/Distance Calculator can be found at www.i-view.com.tw

Specification

						
Model	EPoC-131VA	EPoC-131PS	EPoC-131VAT	EPoC-131PST	EPoC-131VAJ	EPoC-131PSJ
Ethernet						
Connector	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45
Connectivity	10/100 Base-T auto-negotiation auto MDI / MDX crossover			10/100/1000 Base-T auto-negotiation auto MDI / MDX crossover		
Wire type	Cat.5 or better					
Distance	Up to 100 Meters (328 feet)			Up to 100 Meters (328 feet)		
Cable Link						
Connector	BNC	BNC	Terminal Block	Terminal Block	RJ45	RJ45
Type	Receiver	Transmitter	Receiver	Transmitter	Receiver	Transmitter
Wire type	Coaxial Cable		Any 2-Wire		Multi-pair UTP, 18/2, or STP wire	
Distance	Up to 1.5Km (4950 feet) ¹			Up to 1.5Km (4950 feet)		
Topology	Supports Star, Daisy-Chain, or any combination			Supports Star, Daisy-Chain, or any combination		
Encryption	128-bit AES			128-bit AES		
Latency	3 ms			3 ms		
Bandwidth	Total network bandwidth 150 Mbps; with dynamic bandwidth allocation *1			Total network bandwidth 500 Mbps; with dynamic bandwidth allocation *1		
Power						
Power Source	PoE HuB or DC44~56V	PoE or DC48V	PoE HuB or DC44~56V	DC44~56V	PoE HuB or DC44~56V	DC44~56V
Power Output	PoE (BNC)	PoE (RJ-45)	PoE (Terminal Block)	PoE (RJ-45)	PoE (UTP/STP)	PoE (RJ-45)
Physical						
Waterproof	None	None	None	None	None	None
Dimensions (mm)	100 x 55 x 34	100 x 55 x 34	100 x 55 x 34	100 x 55 x 34	100 x 55 x 34	100 x 55 x 34
Weight	140g	140g	140g	140g	140g	140g
Housing	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
LEDs						
Status indicators	Cable link Ethernet Power Ethernet link/ Activity	Cable link Ethernet Power POE connection Ethernet link/ Activity	Cable link Ethernet Power Ethernet link/ Activity	Cable link Ethernet Powe POE connection Ethernet link/ Activity	Cable link Ethernet P Ethernet link/ Activity	Cable link Ethernet Power PoE connection Ethernet link/ Activity
Environment						
Temperature	0°C~50°C/32°F~122°F (Standard); -40°C~60°C / -40°F~140°F (Optional: Built-in heater controller)					
Humidity	20% ~ 85% non-condensing					
Power consumption	≤ 2W			≤ 2W		
Transient immunity	20μS x5 3,000A, 6,000V; ESD 20KV, 200pF			20μS x5 3,000A, 6,000V; ESD 20KV, 200pF		
Accessories	See the ordering information					

Note:

1. Distance and number of devices supported may be lower due to power supply capacity and wire voltage-drop. The bandwidth is dynamically allocated (shared based on traffic), and decreases with wire distance.
2. Product specifications are subject to change without notice.
3. EZLink® is trademark of i-View Communication Inc.; All others trademarks are belonging to the respective owners.

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EZLink

Fast Ethernet/PoE Over 2-Wire

Long distance is no longer your concern.



www.i-view.com.tw

We are determined to provide smart surveillance solutions to meet all kinds of challenging security demands. We strive to offer easy-to-use, optimum solutions by fully integrating hardware and software.

Applications

Upgrading to IP

Retrofit analog CCTV installations into digital systems, delivering full network connectivity and standardized, centrally-sourced power without re-cabling.

New installations

With the familiarity of coaxial cable and the reliability and cost advantages of PoE, it is an effective choice for the installation of new IP systems where cable runs may be longer than standard 10/100/1000 Base-T and hard to get power area.

Long distance extension

Connecting Ethernet/PoE over 2-Wire Extender system back-to-back allows the network signal to be repeated without local power, enabling extension of Ethernet up to 600 meters (1,980 feet).

Networked just there's 2-Wire

The ability to convert 2-Wire into a network connection without requiring power has many advantages in upgrading CATV, satellite or telephone system in hotels or other buildings, among other applications.

Elevators and mechanisms

Coaxial cable has the advantage being coil and bendable, compare to UTP cable. The Ethernet/PoE over 2-Wire Extender system provides a better solution for network access to elevator carriages, such as Security video, Access controller, VoIP and Digital signage.

Accessories

Model: RMP-419 19 inches mount panel

- Connectivity for up to 4 units EPoC/EoC devices.
- Combine with EPoC/EoC devices flexibly.
- Maintain easily with modularized design.
- Suit for EoC-100V, EoC-410V, EPoC-131VA and EPoC-131VAJ, EPoC-131VAT and EPoC-151VA units.
- 1U high rack-mountable, weight: 0.35 Kg.



Model: DIM-351 Dim 35/7.5mm and 35/15mm DIN rail panel.

- Compliant DIN rail standard industrial installation.
- Suit for EPoC-131VA, EPoC-131VAJ, EPoC-131VAT, EPoC-131PS, EPoC-131PSJ, EPoC-PST units.
- Size/Wight: 100mm x47.8mm x10mm / 15Kg.



Order Information

EPoC-131VA : Fast Ethernet /PoE over Coax Cable Receiver.

EPoC-131PS : Fast Ethernet /PoE over Coax Cable Transmitter.

EPoC-131VAT: Fast Ethernet /PoE over 2-Wire Receiver.

EPoC-131PST: Fast Ethernet /PoE over 2-Wire Transmitter.

EPoC-131VAJ: Fast Ethernet /PoE over UTP/STP Cable Receiver.

EPoC-131PSJ: Fast Ethernet /PoE over UTP/STP Cable Transmitter.

PW-4805A : DC48V/0.5A power supply for PoE power input source.

PW-4813A : DC48V/1.35A power supply for PoE power input source.

PW-5613A : DC56V/1.28A power supply for PoE power input source.

RMP-419 : 19 inches Rack Mount Panel for 4pcs EoC-100V, EoC-410V, EPoC-131VA, EPoC-131VAJ, EPoC-151VA.

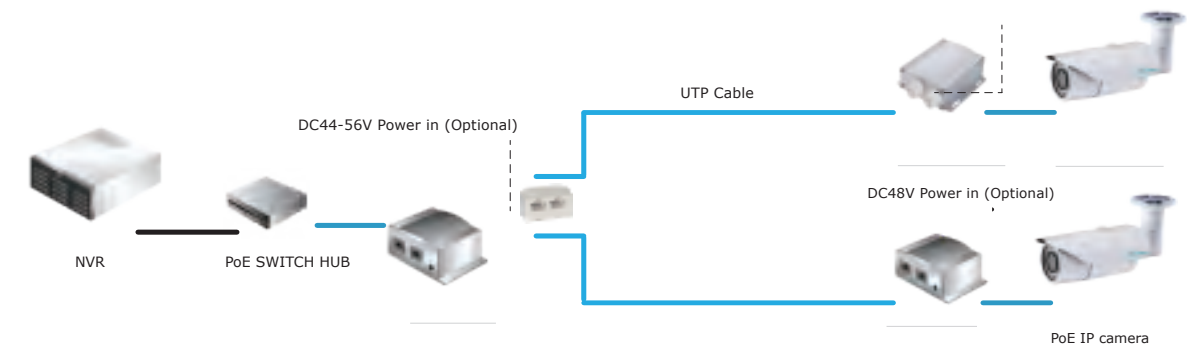
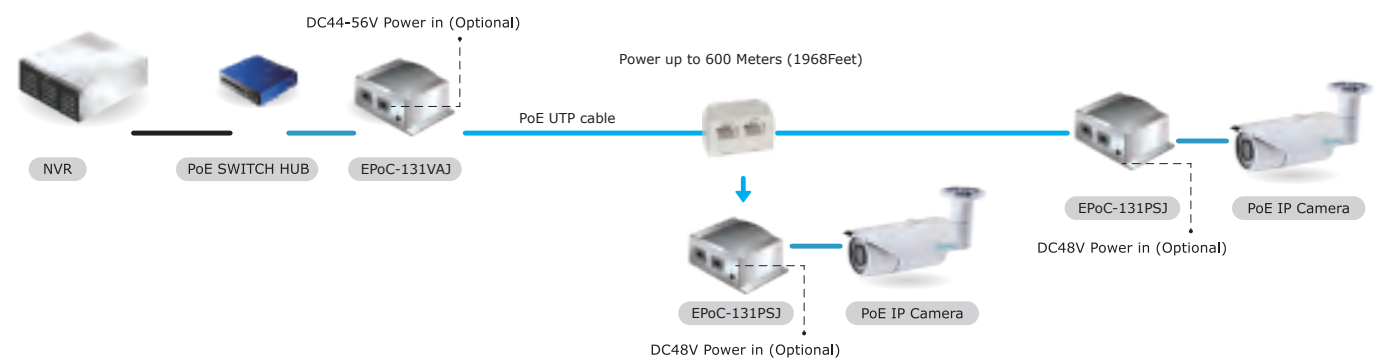
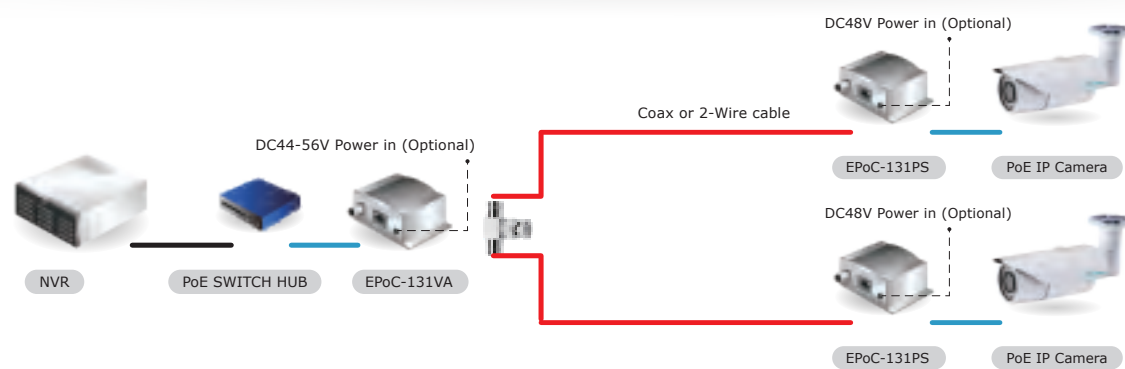
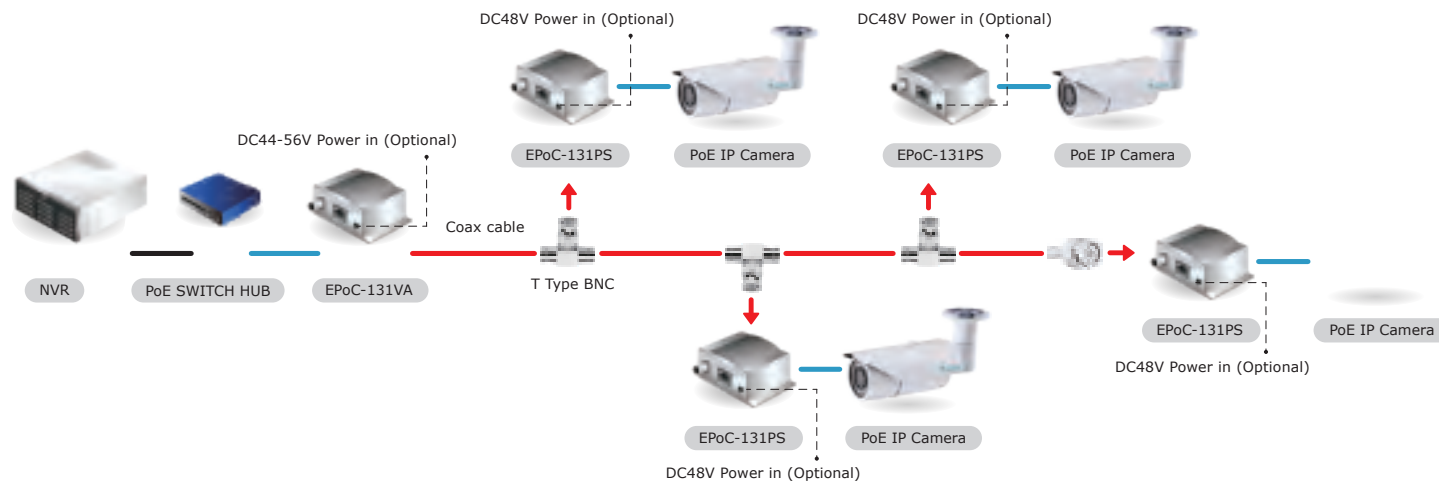
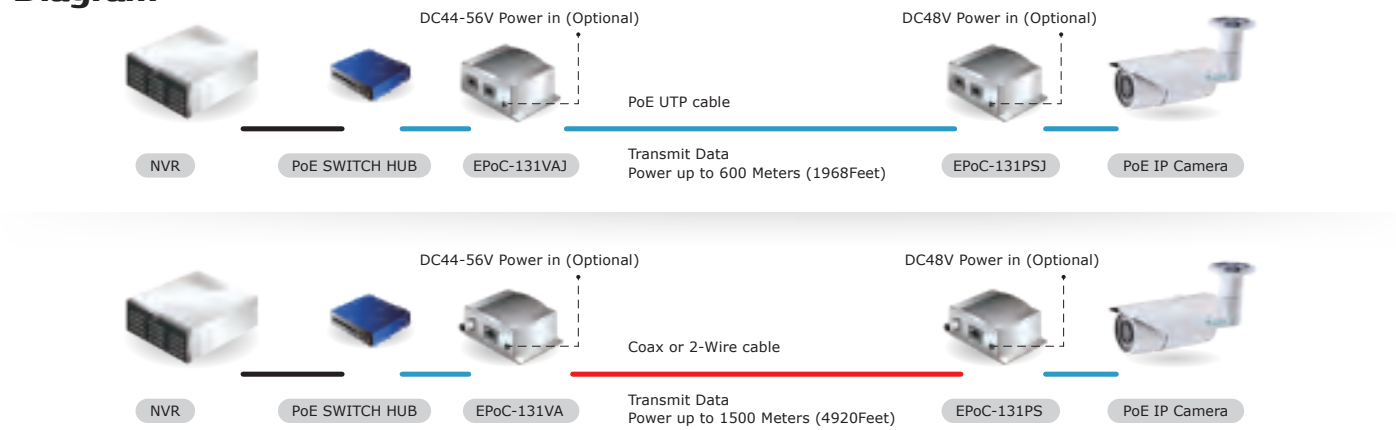
WH-100B : Wall mount waterproof box for EoC-100V, EPoC-131PS, and EPoC-131PSJ unit.

TBNC-01 : T-type BNC connector.

BTB-100 : BNC to Terminal block.

BRK-001 : The Bracket lets EPoC-131PS/PSJ to be placed between a box camera and camera housing and it's mount.

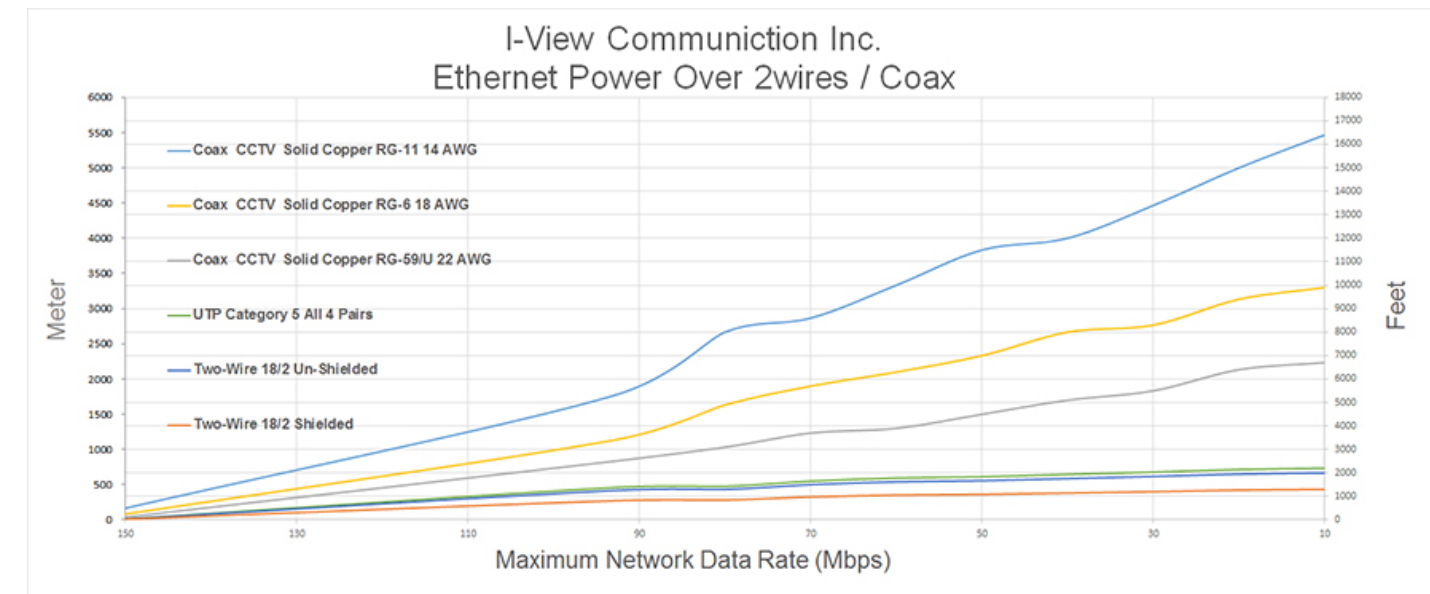
Diagram



Long distance transmission cause the wire voltage-drop cannot provide enough power for IP camera, plug the DC48V power adapter on EPoC-131PS/131PSJ to provide power for IP camera.

— UTP
— PoE UTP
— Coax or 2-Wire

Power Watt vs. Cable Distance (EPoC-131xx)



Power Watt vs. Cable Distance (EPoC-131xx)

