Fast Ethernet/PoE+ over Coax & 2-Wire cable

i-View's EPoC-151xx Series Giga Ethernet / PoE Extender is a compact media converter that allows 10/100/1000 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 Switch Hub or IP cameras without having to lay any new cables or implement any other constructional measures. The EPoC-151xx Series Giga Ethernet / PoE Extender are required at both ends of the cable, and it automatically configures itself as either the transmitter or the receiver. The significant additional benefit of system is that, in addition to high bandwidth data, the power to operate PoE end devices can also be transferred via the two-wire cable.

And now with Giga Ethernet/PoE Extender, you can deliver up to Giga Bandwidth data rate and 50 watts (DC12V/4A) of PoE power to the Switch Hub as well, eliminating the complexity of installing local power supplies. However, thanks to EPoC-151xx Giga Ethernet / PoE Extender's ultra High bandwidth design, even to use the RG-6 coaxial cable still can support 300M/s bandwidth after 600 meters transmission. At the most range likely to be found in a legacy high bandwidth transmission with the UTP or coaxial cable. Now, you can get long distance with high bandwidth transmission without to use the Optical fiber cable.

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 500 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 10/100/1000 Base-T Ethernet device, including IP cameras.
- Compliant IEEE802.3at/af standard and POE+, 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-131HP-O	EPoC-151VA	EPoC-151PS	EPoC-151HP
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	RJ-45	BNC/RJ-45	BNC/RJ45		
Type	Receiver	Receiver	Transmitter	Receiver	Transmitter (Camera Site)	
Wire type	Coax, single- or multi-pair UTP, 18/2, or STP wire			Coax, single- or 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 or DC48V	DC44~56V	None	None
Power Output	PoE (via BNC Port)	25W PoE (RJ45)	DC12V/4A (2-Wire)	PoE (BNC / RJ-45)	DC12V/1A	DC12V/4A
Physical						
Waterproof	None	None	IP 66	None	None	None
Dimensions (mm)	100 x 55 x 34	100 x 55 x 34	128 x 102 x 36	128 x 102 x 36	128 x 102 x36	128 x 102 x36
Weight	140g	140g	310g	310g	310g	310g
Housing	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
LEDs						
Status indicators	Cable link Ethernet Power Ethernet link/ Activity	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 Power PoE connection 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			≤ 3W		
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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Secure your world in ours

EZLink

Gigabyte 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 Features

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.

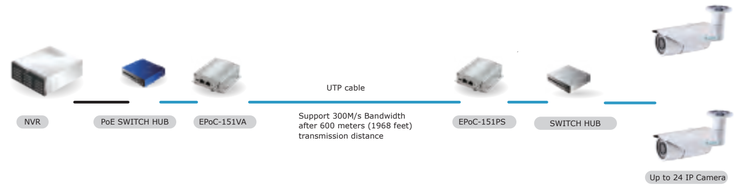
Model: DIM-351 Dim 35/7.5mm and 35/15mm DIN rail panel.

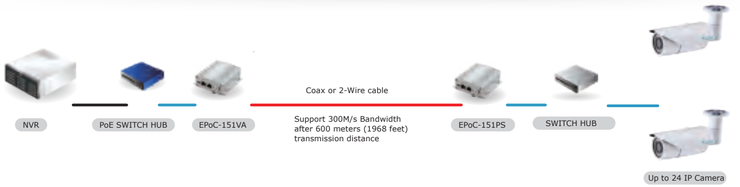
- Compliant DIN rail standard industrial installation.
- Suit for EPoC-131VA, EPoC-131VAJ, EPoC-131VAT, EPoC-131PS, EPoC-131PSJ, EPoC-PST units.
- Size/Wight: 100mm x47.8mm x10mm / 15Kg.

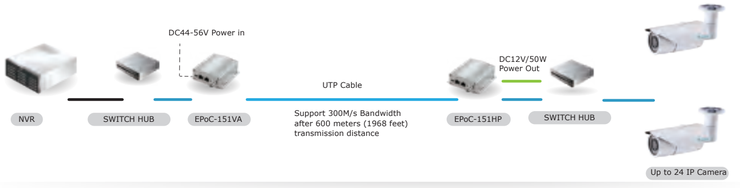
Order Information

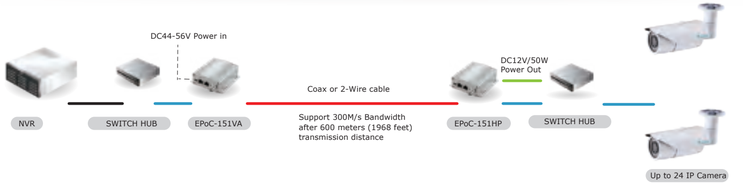
EPoC-151VA：Giga byteEthernet /PoE over Coax/UTP Receiver.
EPoC-151PS：Gigabyte Ethernet /PoE over Coax/UTP Transmitter.
EPoC-151HP：Gigabyte Ethernet /PoE+ over Coax/UTP Transmitter and support 50W (DC12V/4A) power output.
EPoC-131VA： Ethernet /PoE over Coax Receiver.
EPoC-131VAJ：Ethernet /PoE over UTP Receiver.
EPoC-131HP-O：Ethernet /PoE+ over Coax/UTP Transmitter and support 50W (DC12V/4A) power output.
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.
DIM-351： Dim 35/7.5mm and 35/15mm DIN rail panel.
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.

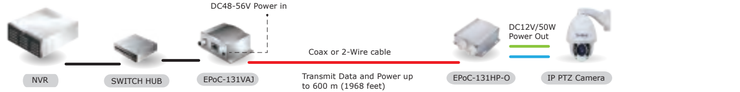
Diagram

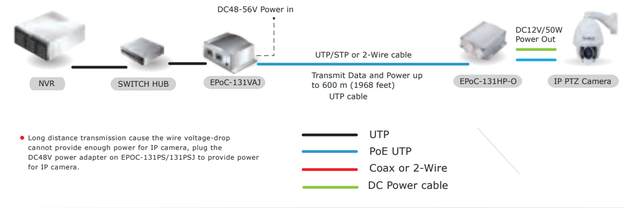






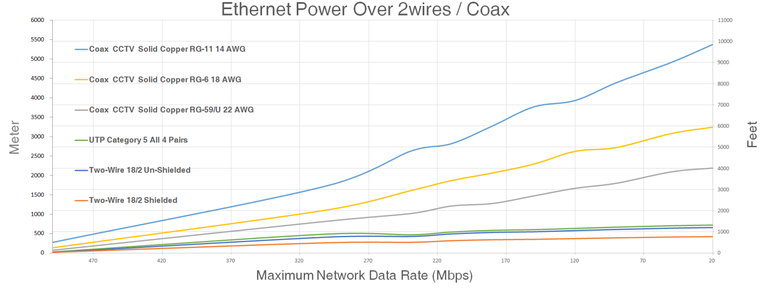






Power Bandwidth vs. Cable Distance (EPOC-151xx)

I-View Communiction Inc.
Ethernet Power Over 2wires / Coax



Power Watt vs. Cable Distance (EPOC-151xx)

I-View Communiction Inc.
Ethernet Power Over 2wires / Coax