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ECR-8-PoE+, ECR-16-PoE+ Receiver Instruction Manual

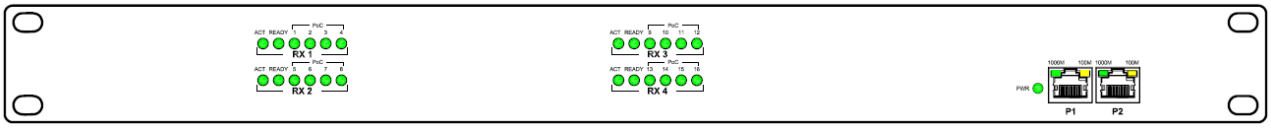
Overview

The ECR-8/16-PoE+ (8/16 port receiver) operates with the ECT-1-PoE+ (transmitters) to provide Ethernet Extension for up to 8/16 channels of 10/100Base-TX over coaxial cable. The ECR-8/16-PoE+ receiver incorporates an Ethernet switch which consolidates the input EoC signals to 4 ports of 10/100/1000Mbps Ethernet . This equipment is capable of operating over a coaxial cable distance of up to 800m. This product supports PoC, hence, no dc power is required for the transmitter side and the connected IP camera (assuming the camera supports Power over Ethernet PoE). This product is good for retrofitting analogue to IP while maintaining the existing coaxial cable infrastructure.

Physical Description

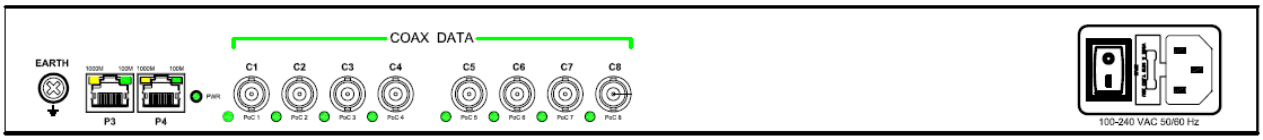
Front Panel

ECR-8-PoE+

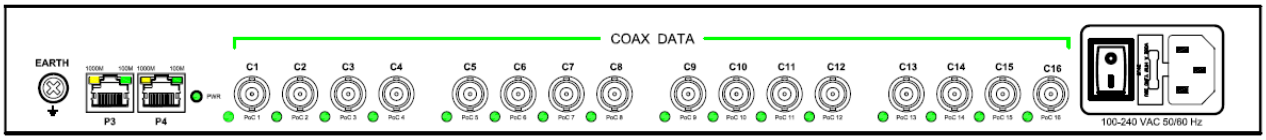


ECR-16-PoE+

Rear Panel



ECR-8-PoE+



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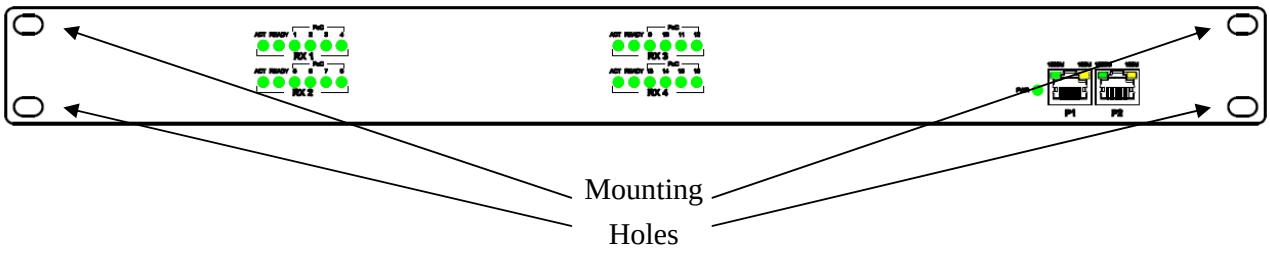
Installation

ECR-8/16-PoE+ can be installed in a 19" rack cabinet. The product has 4 mounting holes. Use 4 rack mount screws to securely install the product in the rack cabinet.

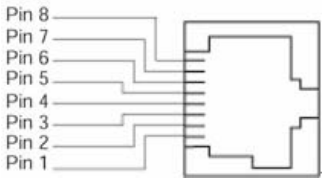


Setup

1. The ECR-8/16-PoE+ is a plug-and-play device. Connect the socket of the AC line cord to the AC inlet of the receiver and plug the other end into a standard AC outlet. Turn on the switch, the PWR LED will then be lit.
2. The READY LED will be lit (ON) when the receiver is ready for data transfer.
3. Connect one end of the coaxial cable to the female BNC connector (COAX DATA) of ECR-8/16-PoE+ and the other end to the transmitter ECT-1-PoE+. If the transmitter and receiver are properly connected and communicating with each other, the ACT will be lit (ON). The PoC LED will be also be lit when the PoC is in use.
4. Connect the Ethernet cable from an NVR or PC or similar equipment to 1 of the 4 (10/100/1000Base-T) Ethernet ports on the ECR-8/16-PoE+. If the cable is properly connected, the corresponding 100BaseTX or 1000Base-T LED with be lit at the RJ45 connector The speed depends on the Ethernet equipment which the ECR-8/16-PoE+ is connected to. When there is data activity, the LED will be blinking.

RJ-45 Interface

RJ-45 Pin Assignment



Pin	Signal Name
1	TP0+
2	TP0-
3	TP1+
4	TP2+
5	TP2-
6	TP1-
7	TP3+
8	TP3-

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Cable Connections

Interface Type	Support Description	Cable Type
RJ-45	10Base-TX	Category 3 or above cable
	100Base-TX	Category 5 or above cable
	1000Base-T	Category 5 or above cable
BNC (Female)	Ethernet over Coax Data	RG-59/U or similar
Power	AC power interface with 100~240 VAC input	AC Power Socket

LED Status

Label		Colour	State	Indication
PWR		Green	Steady	Power on
			Off	Power off
ACT		Green	Flashing	Data transfer within the coaxial cable
			Off	No data transfer within the coaxial cable
READY		Green	Steady	The converter is ready for data transfer
			Off	The converter is not ready
PoC 1-8 (ECR-8-PoE+) PoC 1-16 (ECR-16-PoE+)		Green	Flashing	Detection stage
			ON: 1 sec, OFF: 5 sec (Repeat)	Un-connected or broken coaxial cable
			ON: 2 sec OFF: 4 sec (Repeat)	TX is connected with power adaptor (PoC not required)
			ON: 3 sec OFF: 3 sec (Repeat)	Overload
			ON	Power over Coax in use
Ethernet	**100M**	Green	Steady	Ethernet connection of 100Base-TX is established
			Flashing	Transmitting or receiving Ethernet data
			Off	Neither valid Ethernet connection established nor transmitting or receiving Ethernet data
	1000M	Yellow	Steady	Ethernet connection of 1000Base-T is established
			Flashing	Transmitting or receiving Ethernet data
			Off	Neither valid Ethernet connection established nor transmitting or receiving Ethernet data

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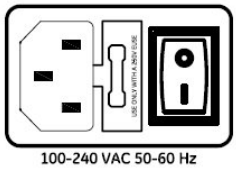
Power Connection

The power interface of ECR-8/16-PoE+ complies with the IEC60320-C14 standard and the AC power socket complies with the IEC60320-C13 standard



IEC60320-C14 **AC Power Socket**

Dimensions (Unit: mm) (19”W x 11.8”D x 1.75”H)