DSE
USER MANUAL

IN-POE-CX1 / 4
IP transmitters on coaxial with POE

Product description
The IN-POE-CX1 / 4 POE transmitters are used to carry an ethernet network signal through a coaxial cable. They allow a considerable range up to 2500 m. with 10/100 interface. In addition, these transmitters are also POE injectors capable of injecting POE and POE + power and transmitting it on a coaxial cable to the equipment.

They are particularly useful products if you want to replace an analog camera with an IP one, as they allow you to connect the new IP camera using the coaxial cabling already present. The IN-POE-CX1 model has 2 channels for the connection of 2 IP cameras. The IN-POE-CX4 model has 4 channels for the connection of 4 cameras.

You can also use these products as a switch to branch your IP network, connecting several elements together.

operation
To transmit the IP signal over a coaxial cable you need two units: one you will use it downstream in the network, near the camera and one upstream, near the switch. You can choose between two types of modules: with 2 BNC and with 4 BNC.

The module with 4BNC can be used upstream, near the switch, to connect up to 4 cameras on 4 coaxials. The module with 2BNC instead you can use it both upstream, for 2 cameras, and downstream, near the camera (a BNC will remain unused)

Installation and wiring
o   To get a working system you need to use at least 2 of these products

o   One of the two modules must be connected directly to a network switch or to the router by means of a network cable connected to its RJ45 port. A second module must be connected with a network cable directly to the IP camera.

o   Use the BNC ports to interconnect the modules with CAT5 / 6 coaxial cable. To function properly each module needs to be connected with just 1 coaxial cable. You can use each excess port to connect a different module.

o   Power one of the system modules using a 48… 53VDC power supply (not included)

First ignition
Once the power has been connected, the red POWER LED and the red POE LED will light up in both devices if one of the two modules is powered with a 48… 53VDC power supply. Immediately afterwards the green LINK LED lights up and starts flashing when the two devices communicate correctly and the camera transmits data to the network. If the LINK LEDs do not light up or flash, it means that the two modules cannot communicate with each other. This can happen due to incorrect connection, insufficient power supply or incompatible switch. For proper operation, connect the devices to a port on the NON POE switch. If all devices are connected correctly and the problem persists, try using a different switch model, as the standards may not be compatible.

Tips
o   To avoid excessive signal loss, do not use network cables longer than 300 m and coaxial cables longer than 2500 m.

o   If you want to transmit POE power with these devices, be sure to supply 48… 53VDC power supply, as lower voltages are not enough to inject POE power onto the coaxial cable.

o   For a pair of devices it is sufficient to power only one of the two modules, the other is powered by the POE provided on the coaxial cable.

Main features

Supply	12… 53VDC (POE 48… 53VDC)
Max consumption	2W
Connectors	1xRJ45 + 2 / 4xBNC male
Temperature	0 ° … + 55 ° C
Weight	78/154 gr. per module

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