Specifications

Environment	PoE CCTV IP
Devices	PoE CCTV IP cameras with a 10/100Mb/s Ethernet port, using up to 14 Watts.
Standard supported	Ethernet side: IEEE 802.3 10BaseT, IEEE 802.3U 100Base-TX IEEE 802.3af compatible PoE
Maximum distance vs. speed between unit	10 Mbps at 7W with good RG59: 1600ft (500m) 10 Mbps at 14W with good RG59: 1000ft(300m) 100 Mbps at 14W: 330ft (100m) The maximum distance will vary depending on the coax cable.
Cable between unit	Coax 75 ohm RG59/RG6 or better. (avoid CCS cable)
Cable for Ethernet port *(Not included)*	Two CAT 5/5e/6 UTP cables are required (straight), up to 10ft(3m).
Indicator	Power present.
Ethernet connector	One RJ45S.
Connector to connect the two units	BNC 75 ohms
PoE Mode Switch	Manual switch selects between PoE Mode A or Mode B Mode A: Most PoE switches Mode B: Most PoE injectors
Power consumption	0.5 Watts, from the PoE. No external supply required.
Temperature	Operating: 0° to 60°C Storage: -55° to 85°C Humidity: Up to 95% non-condensing
Enclosure	Plastic
Dimensions	2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.54 cm)
Weight	0.15 lb. (70 g)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Ordering information	500111 CCTV IP PoE Extender.

CCTV-IP PoE Extender
500111
Quick Installation Guide

Overview

The CCTV IP PoE Extender (500111) allows one IP camera (7 Watts) to be connected up to 1600 ft (500 m) via a single 75-ohm coax cable in a point-to-point configuration. The product works in pairs and the power consumption is low enough so that it does not load the PoE source or switch. The maximum distance depends on the grade of coax cable and the power consumption of the camera.

Applications

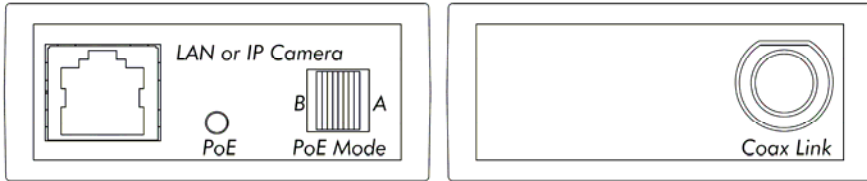CCTV IP surveillance
Ethernet inter-connections

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Toll Free (North America): (877) 689-5228
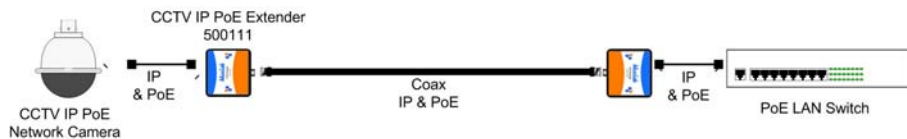E-mail: videoease@muxlab.com   URL: www.muxlab.com

Installation

One (1) pair of extenders is needed to complete one PoE IP connection via coaxial cable. To install the extenders, perform the following steps:

1. Identify the connectors on the CCTV IP PoE Extender as indicated on the product panels.

2. If connecting the 500111 to a PoE switch and an IP camera, ensure the PoE Mode Switch is in the Mode A position on both the transmit and receive side.

3. If connecting the 500111 to a PoE injector and an IP camera, ensure the PoE Mode Switch is in the Mode B position on both the transmit and receive side.

4. To connect two units together, use a good 75-ohm coax cable with BNC. Coax cable with copper clad steel (CCS) will not reach the maximum distance.

5. On the Ethernet side, the distance recommended between product and network/camera the maximum is 10ft (3m). The cable must be straight-through and must be connected into the RJ45 connectors. The pin configuration follows the EIA/TIA 568A/B standard.

6. To use the 10Mb/s speed the camera or the network side must be set manually at 10Mb/s.

7. Connect the CCTV and network equipment to the CCTV IP extenders and power on all the support equipment. If PoE is present, the green LED should be on.

8. The following drawing is a typical application.

Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions with the installation of the Extender:

LEDS	Condition detected	Possible cause	Action
PoE	OFF: No power detected.	Network equipment does not support PoE	Check that the network equipment supports PoE
		Power injector is not functioning properly	Check if the power injector is properly connected
		PoE power exceeded	Use a power injector with a higher rating or a camera with a lower power consumption
		Defective cable.	Check that the cable properly crimped, that it follows EIA/TIA 568A/B standard and that it is in straight-through configuration
		PoE Mode Switch incorrectly set on one or both sides	Set the PoE Mode switch to the correct position.

If you still can not diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).