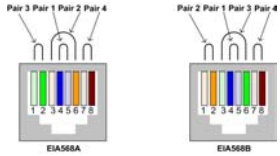


Specifications

| | |
|----------------------------------|--|
| Environment | PoE CCTV IP |
| Devices | PoE CCTV IP cameras with a 10/100Mb/s Ethernet port, using up to 15.4 Watts. |
| Transmission | Transparent to the user |
| Standard supported | Ethernet side: IEEE 802.3 10BaseT, IEEE 802.3U 100Base-TX IEEE 802.3af compatible PoE |
| PoE Power | Class 3 |
| Connectors | One (1) BNC 75 Ohms. One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. |
| LED Indicators | Power, IP Traffic, 100MBps |
| Maximum Distance | RG59/RG6: Up to 980 ft (300m) @ 100Mbps UTP Cat 5e/6: Up to 330 ft (100 m) <i>Note: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.</i> |
| RJ45 Pin Configuration | <p>RJ45 Link</p> <p>Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)</p>  <p>Reverse Polarity Sensitive. Use EIA/TIA 568A or 568B straight-through wiring.</p> |
| Cable | UTP/STP: One (1) Cat 5e/6 or better twisted pair cables required RG59/RG6: 75 Ohms (avoid CCS cable) |
| PoE Power Supply (500113) | Optional PoE Power Supply (110-240V/48VDC/.625A, 2.1mm plug) with inter-changeable blades (sold separately). <i>Required at the Camera Side Device when coax cable quality or length results in insufficient power reaching the camera. Required at the Network Side Device when used with non-PoE LAN switch.</i> |
| Power Consumption | Network Side: 1.82 Watt Camera Side: 1.73 Watt |
| Temperature | Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing |
| Enclosure | Metal |
| Accessories | Wall-mount brackets included |
| Dimensions | 4.37" x 2.95" x 0.99" (110 x 75 x 25 mm) |
| Weight | 1.5 lb (0.68 kg) |
| Compliance | Regulatory: FCC, CE, RoHS Flammability: 94V0 |
| Warranty | 2 years |
| Order Information | 500112 LongReach CCTV IP PoE Extender Kit 500113 Power Supply for 500112 (48VDC) |



8495 Dalton Road, Mount Royal, Quebec, Canada. H4T 1V5
Tel: (514) 905-0588 Fax: (514) 905-0589
Toll Free (North America): (877) 689-5228
E-mail: videoease@muxlab.com URL: www.muxlab.com



LongReach CCTV IP PoE Extender Kit 500112

Quick Installation Guide

Overview

The LongReach CCTV IP PoE Extender Kit (500112) allows one IP camera (15.4 Watts) to be connected up to 980 ft (300 m) via a single 75-ohm coax cable in a point-to-point configuration. The maximum distance depends on the grade and quality of coaxial cable. An optional PoE 48VDC Power Supply (500113) is available if required.

Applications

CCTV IP surveillance

Installation

1. Identify the connectors on the Extenders as indicated on the product labels.



2. Attach the surface-mount brackets if required as shown below.



3. Verify that the distance between the CCTV IP PoE extenders is within MuxLab specifications (see Specifications table).

4. To install the Network Side Device:

3a. Connect the extender to the PoE Ethernet Switch with a UTP Cable.

Note: If the Ethernet Switch is not PoE; you will need to connect a PoE Power Supply (500113) to the Network Side Device.

3b. Connect one (1) length of RG59 or RG6 coaxial cable to the COAX LINK connector on the Extender.

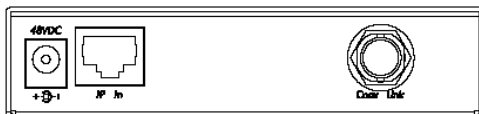


5. To install the Camera Side Device:

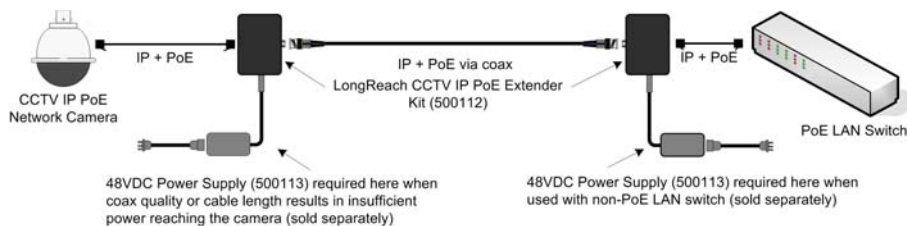
4a. Connect the extender to the camera with a Cat5e/6 cable.

Note: If the quality or length of the coaxial cable reduces the power to a level that is insufficient to power the camera, you will need to connect a PoE Power Supply (500113) to the Camera Side device.

4b. Connect one (1) length of RG59 or RG6 coaxial cable to the COAX LINK connector on the Extender.



6. Power on the equipment and verify the image quality. The following is a diagram of a typical configuration.



Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in respect to the installation of the CCTV IP PoE Coax Extender Kit:

| Symptom | Network Side LEDs | | Camera Side LEDs | | Probable Cause | Possible Solutions |
|--------------|-------------------|------------|------------------|------------|----------------|---|
| | Power | IP Traffic | Power | IP Traffic | | |
| No Image | OFF | OFF | OFF | OFF | No power | <ul style="list-style-type: none"> Check if the Ethernet switch is PoE. Check the power connection. |
| No Image | ON | OFF | OFF | OFF | Coaxial Cable | <ul style="list-style-type: none"> Check the coaxial cables. |
| No Image | ON | OFF | OFF | OFF | Distance | <ul style="list-style-type: none"> Check the coaxial cables length and quality. |
| No Image | ON | OFF | ON | OFF | UTP Cable | <ul style="list-style-type: none"> Check the UTP Cable pin out. |
| No Image | ON | ON | ON | ON | No Traffic | <ul style="list-style-type: none"> Check network configuration. |
| Choppy Image | ON | BLINK | ON | BLINK | Distance | <ul style="list-style-type: none"> Check cable length Check the coaxial cable quality. |

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