Altronix®

eBridge1STR

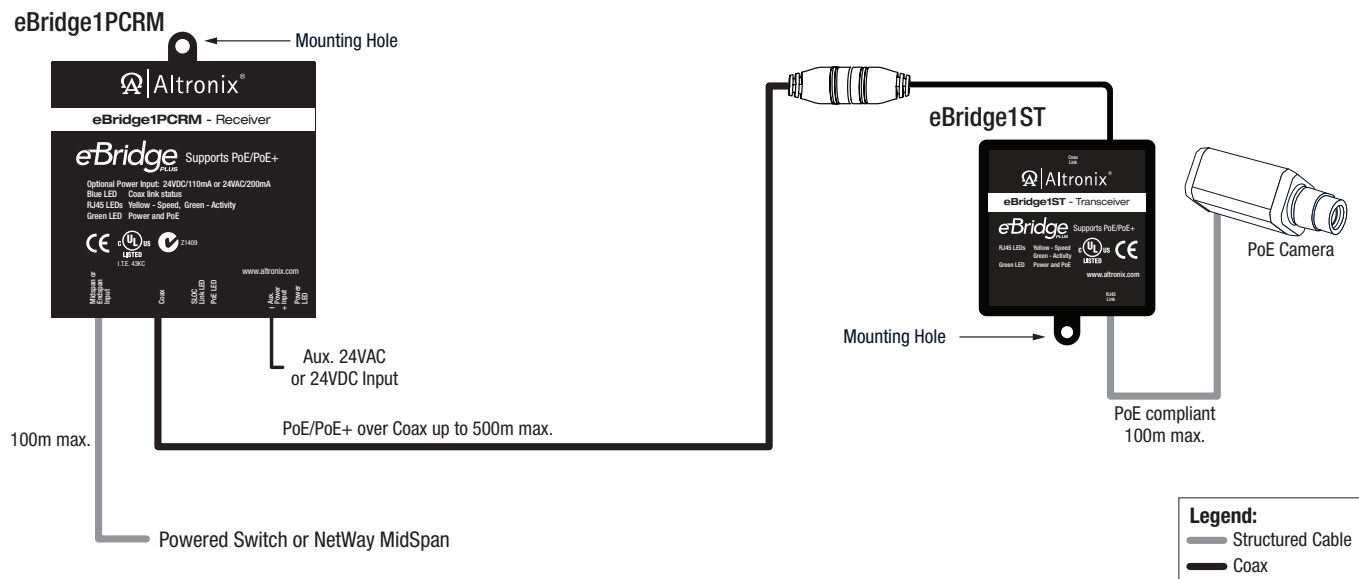## IP and PoE/PoE+ over Coax Solution

eBridge™ PLUS

Altronix eBridge1STR ethernet over coax adapter kit transmits data at 25Mbps and power over Coax cable in a PoE+ compliant format. The eBridge1PCRM is powered by an external midspan or endspan. eBridge1PCRM receiver passes PoE/PoE+ power over the same coax cable to the eBridge1ST transceiver, which, in turn, passes this power to an enabled IP camera/device. These plug and play units facilitate a cost-effective, simple way to replace legacy analog products with new IP devices over existing coax up to 500m.

eBridge1PCRM

eBridge1ST

Key Features

- IEEE 802.3af (15W) and IEEE 802.3at (30W)

- Throughput is rated to pass 25Mbps at distances up to 500m

- Eliminates the costs and labor associated with installing new network cabling

- Retrofit digital IP cameras in an analog CCTV installation

- Auto detection and protection of legacy non-PoE cameras/devices

- Works with Megapixel, HD720, HD1080 & VGA (SD) cameras

- Extends Network link distance in an industrial environment

- Upgrades deployed CCTV Coax to a digital network for Retail, Casinos, Airports, Schools, Hospitals, etc.

- UL Listed in the U.S. and Canada

- CE European Conformity

- Lifetime Warranty

Typical Operation Diagram

eBridge1PCRM

Mounting Hole

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eBridge1PCRM - Receiver

eBridge PLUS Supports PoE/PoE+

Optional Power Input: 24VDC/110mA or 24VAC/200mA
Blue LED   Coax link status
RJ45 LEDs Yellow - Speed, Green - Activity
Green LED Power and PoE

CE Z1409 I.T.E. 43KC

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Midspan or Endspan Input   Coax   SLOC Link/Act LED   PoE LED   Aux. Power + Input   Power LED

Aux. 24VAC or 24VDC Input

PoE/PoE+ over Coax up to 500m max.

100m max.

Powered Switch or NetWay MidSpan

eBridge1ST

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eBridge1ST - Transceiver

eBridge PLUS Supports PoE/PoE+

RJ45 LEDs Yellow - Speed
           Green - Activity
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Coax Link

RJ45 Link

Mounting Hole

PoE Camera

PoE compliant 100m max.

Legend:
▬ Structured Cable
▬ Coax

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eBridge1STR
IP and PoE/PoE+ over Coax Solution

eBridge PLUS

Specifications

Input

eBridge1PCRM: Powered by midspan or endspan
Alternatively, can be powered by
24VDC/0.11A or 24VAC/0.2A via Aux. Input

eBridge1ST: Operating power provided by PSE
(power sourcing equipment)
Power consumption: 1.5W

Coax

Throughput is rated to pass 25mbps of data at distances up to 500m

With proper headend equipment multiple Megapixel cameras
can be used

Connectivity: BNC, RG-59/U or similar

Ethernet

Connectivity: RJ45, auto-crossover

Wire type: 4-pair Cat-5 or better structured cable

Speed: 10/100BaseT, half/full duplex, auto negotiation

Distance: up to 100m

Indicators (LED)

eBridge1PCRM:
Blue LED - Coax link connection
Green LED: PoE ON
Green LED: Power ON

eBridge1PCRM and eBridge1ST:
Yellow and Green LED (RJ45): IP Link status, 10/100Base-T/active

eBridge1ST:
Blue LED: Coax link connection
Green LED: PoE ON

Agency Listings

UL/cUL   UL 60950-1
(Information Technology Equipment)

CE   European Conformity.

Physical and Environmental

Dimensions (W x L x H)
eBridge1PCRM:
3.5" x 4.375" x 1" (88.9mm x 111.1mm x 25.4mm)
eBridge1ST:
2.27" x 2.645" x 1.12" (57.7mm x 67.2mm x 28.44mm)

Weight (approx.)
Product Weight   0.4 lbs. (0.18 kg)
Shipping Weight   1 lbs. (0.45 kg)

Temperature
Operating
eBridge1PCRM: -20ºC to 49ºC (-4ºF to 120.2ºF)
eBridge1ST:
For 15W: -40ºC to 75ºC (-40ºF to 167ºF)
For 30W: -40ºC to 65ºC (-40ºF to 149ºF)
Storage   -40ºC to 75ºC (-40º to 167ºF)

Relative Humidity 85% +/-5%

Operating Altitude:
-304.8 to 2,000m (-1,000 to 6,561.679 ft.)