eBridge™ PLUS

Altronix®

eBridge1STR
IP and PoE/PoE+ over Coax Solution

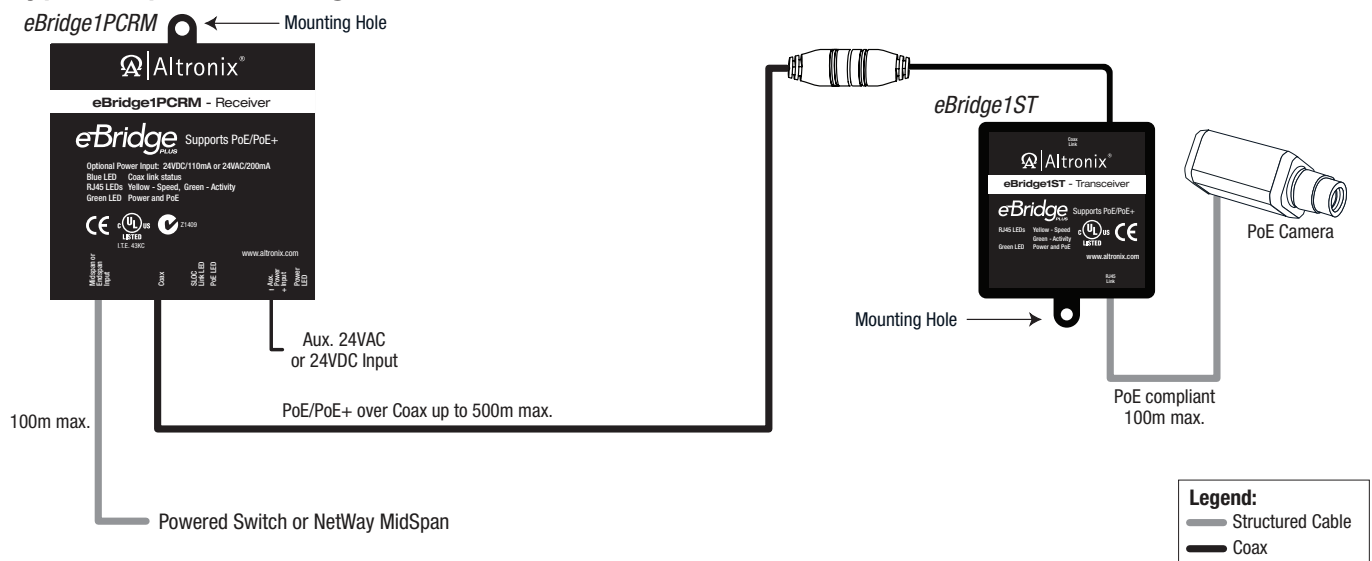eBridge1PCRM

eBridge1ST

Description

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.

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 Approved.

- Lifetime Warranty

Typical Operation Diagram

Legend:
Structured Cable
Coax

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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.).