

## eBridge1STR IP and PoE/PoE+ over Coax Solution

### Description

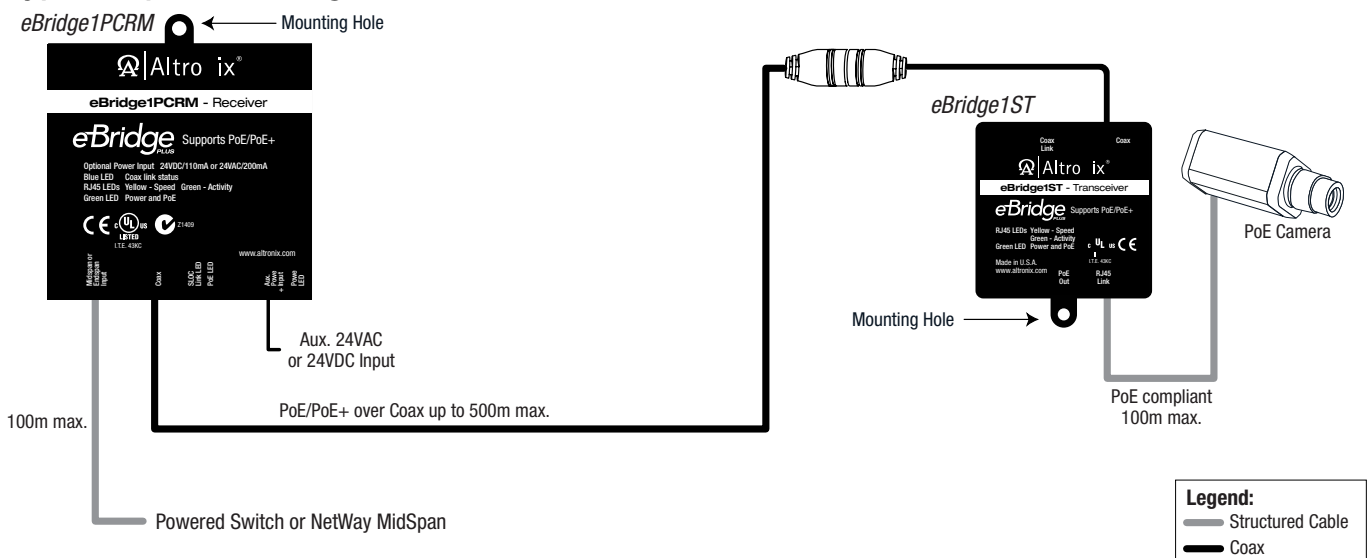
Altronix eBridge1STR ethernet over coax adapter kit transmits data at 25Mbps and power over Coax cable in a PoE+ compliant format. The eBridge1PCRM is powered by an external midspan or endspan. eBridge1PCRM receiver passes PoE/PoE+ power over the same coax cable to the eBridge1ST transceiver, which, 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 / Made in the U.S.A.

### Typical Operation Diagram



## eBridge1STR

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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 CAT5 or better structured cable.  
Speed: 10/100BaseT, half/full duplex, auto negotiation.  
Distance: up to 100m.

##### Indicators (LED)

**eBridge1PCRM and eBridge1ST:**

Blue LED: Coax link connection.

Green LED: PoE ON.

Yellow and Green LED (by RJ45 jack):  
IP Link status, 10/100Base-T/active.

**eBridge1PCRM:**

Green LED: Power 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:** -20°C to 49°C (-4°F to 120.2°F).

**eBridge1ST:**

For 15W: -40°C to 75°C (-40°F to 167°F).

For 30W: -40°C to 65°C (-40°F to 149°F).

**Storage** -40°C to 75°C (-40°F to 167°F).

**Relative Humidity** 85% +/-5%.

**Operating Altitude:** -304.8 to 2,000m.