

# eBridge1PCRMT

## IP and PoE/PoE+ over Coax Solution

### Description

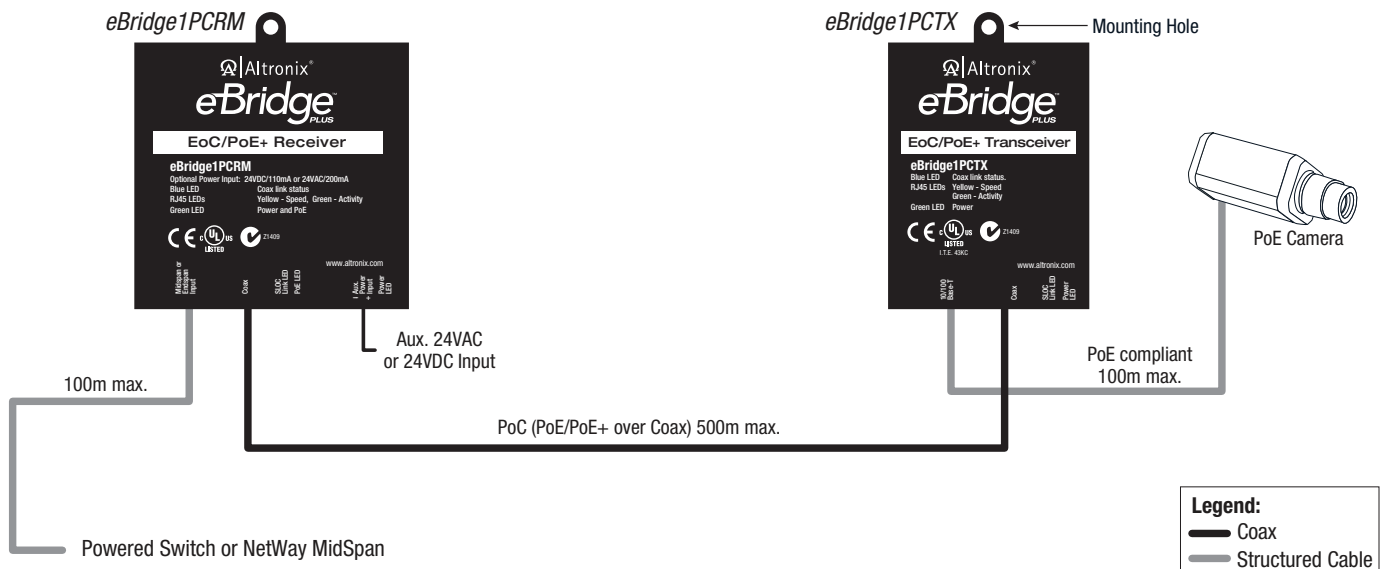
eBridge1PCRMT is a single port EoC Receiver and hardened Transceiver kit that transmits data and passes over coax cable. eBridge1PCRMT receiver is powered by a PoE midspan or endspan product, such as a NetWay8M and NetWay16M and sends its power over the coax to the eBridge1PCTX transceiver under PoE protocol. This enables the eBridge1PCRMT to be used in a managed manner, allowing for remote camera reset. The transceiver in turn delivers that PoE compliant power to an edge device/camera. This plug and play unit facilitates system upgrades from analog to IP utilizing existing legacy Coax and eliminates the costs and labor associated with installing new network cabling. Data transmission and power over the Coax is possible up to 500m in comparison to 100m Ethernet distance (CAT5e). A maximum range from headend to the edge device/camera is 700m, taking into consideration that up to 100m of structured cable may be deployed from the receiver to the network switch and the transceiver to the edge device/camera.



### 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.
- C-Tick compliant.
- Lifetime Warranty

### Typical Operation Diagram



## eBridge1PCRM IP and PoE/PoE+ over Coax Solution

### Specifications

#### Input

- eBridge1PCRM: Powered by midspan or endspan.  
Alternatively, can be powered by  
24VDC/0.11A or 24VAC/0.2A via Aux. Input.
- eBridge1PCTX: Powered by eBridge1PCRM.

#### 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.

#### 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.

#### Indicators (LED)

- |                              |  |
|------------------------------|--|
| Blue LED                     | Coax link connection.                  |
| Green LED                    | PoE ON.                                |
| Green LED                    | Power ON.                              |
| Yellow and Green LED (RJ45): | IP Link status,<br>10/100Base-T/active |
| eBridge1PCTX:                |  |
| Green LED                    | PoE from eBridge1PCRM.                 |

#### Agency Listings

- |                   |   |
|-------------------|---|
| UL/cUL            | UL 60950-1<br>(Information Technology Equipment). |
| CE                | European Conformity.                              |
| C-Tick compliant. |   |

#### 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).
- eBridge1PCTX:  
2.5" x 4.375" x 1" (63.5mm x 111.1mm x 25.4mm).

##### Weight (approx.)

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

##### Temperature

##### Operating

##### eBridge1PCTX

- |          |                                   |
|----------|-----------------------------------|
| For 15W: | -40°C to 75°C (-40°F to 167°F).   |
| For 30W: | -40°C to 49°C (-40°F to 120.2°F). |

##### eBridge1PCRM

- |         |                                |
|---------|--------------------------------|
| Storage | -30°C to 70°C (-22° to 158°F). |
|---------|--------------------------------|

##### Relative Humidity

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

##### Operating Altitude:

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