

# eBridge1PCRT

## IP and PoE/PoE+ over Coax Solution



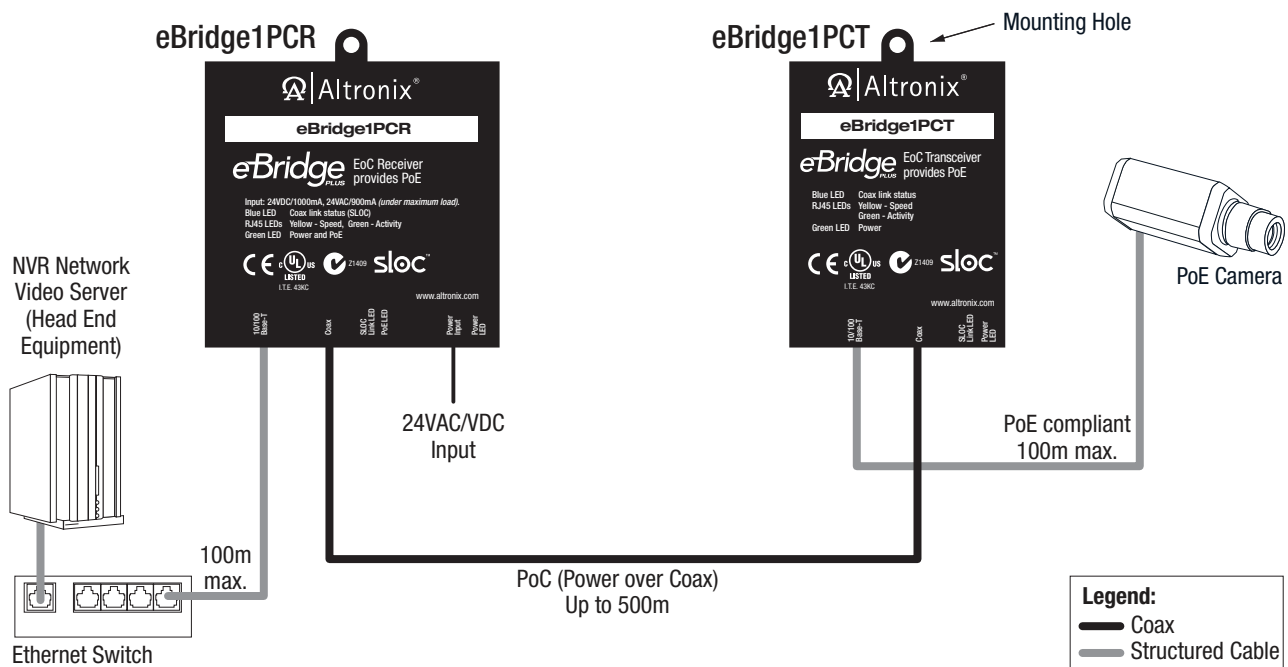
Altronix eBridge1PCRT single port EoC Receiver and hardened Transceiver kit transmits data and power over coax cable. eBridge1PCR generates PoE up the coax to eBridge1PCT transceiver. The transceiver, in turn, delivers that PoE-compliant power to an edge device/camera. This plug and play unit facilitates 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)
- 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
- C-Tick compliant
- Lifetime Warranty

### Typical Operation Diagram



### Lifetime Warranty



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## Specifications

### Input

eBridge1PCR: 24VDC/1,000mA from Class 2 power supply or 24VAC/900mA from Class 2 plug-in transformer

eBridge1PCT: Powered by eBridge1PCR

### Ethernet

Connectivity: RJ45, auto-crossover

Wire type: 4-pair CAT5 or better structured cable

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

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

Connectivity: BNC, RG-59/U or similar

### Indicators (LED)

eBridge1PCR:  
Blue LED - Coax link connection.  
Green LED: PoE ON.  
Green LED: Power ON.  
Yellow and Green LED (RJ45): IP Link status, 10/100Base-T/active

eBridge1PCT:  
Blue LED: Coax link connection  
Green LED: PoE from eBridge1PCR

### Agency Listings

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

CE European Conformity

C-Tick compliant

### Physical and Environmental

#### Dimensions (W x L x H)

eBridge1PCR:  
3.5" x 4.375" x 1" (88.9mm x 111.1mm x 25.4mm)

eBridge1PCT:  
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

eBridge1PCT -40°C to 75°C (-40°F to 167°F)

eBridge1PCR -20°C to 60°C (-4°F to 140°F)

Storage -30°C to 75°C (-22° to 167°F)

Relative Humidity 85% +/-5%.

Operating Altitude: -304.8 to 2,000m.

#### BTU/Hr. (eBridge1PCR, approx.):

24VDC: 12 BTU/Hr.  
24VAC: 11 BTU/Hr.

### Lifetime Warranty