

eBridge1PCRTX

IP and PoE/PoE+ over Coax Solution



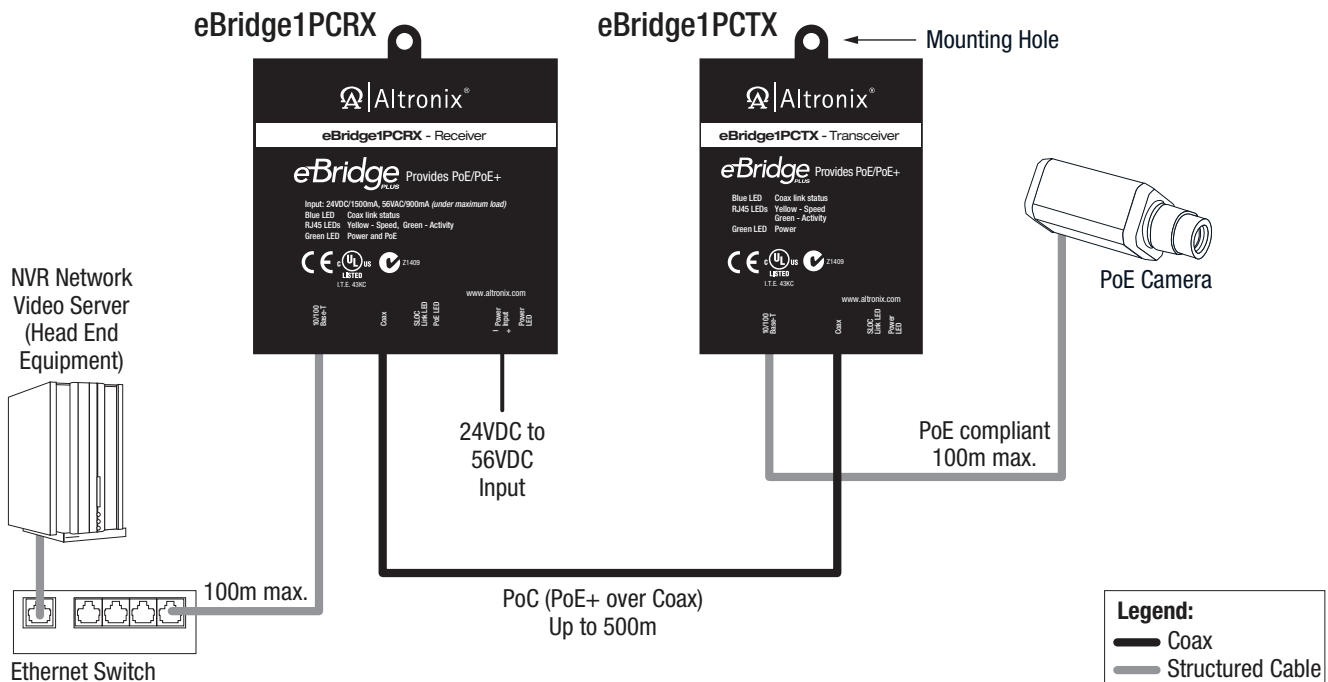
Altronix eBridge1PCRTX single port EoC Receiver and hardened Transceiver kit transmits data and power over coax cable. eBridge1PCRX generates PoE/PoE+ up the coax to an eBridge1PCTX transceiver. The transceiver, in turn, delivers that PoE-compliant power to an edge device/camera. This plug and play unit 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 head end 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 European Conformity
- C-Tick compliant
- Lifetime Warranty

Typical Operation Diagram



Lifetime Warranty



eBridge1PCRXTX

IP and PoE/PoE+ over Coax Solution



Specifications

Input

- eBridge1PCRXTX: 24VDC to 56VDC Class 2 power supply (polarity observed)
- eBridge1PCTX: Powered by eBridge1PCRXTX

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)

- eBridge1PCRXTX and eBridge1PCTX:
 - 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
- eBridge1PCTX only:
 - Green LED: PoE from eBridge1PCRXTX

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)

- eBridge1PCRXTX: 3.5" x 4.375" x 1" (88.89mm x 111.125mm x 25.4mm)
- eBridge1PCTX: 2.5" x 4.375" x 1" (63.5mm x 111.125mm 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)
 - eBridge1PCRXTX
 - 15W: -20°C to 45°C (-4°F to 113°F)
 - 30W for 24VDC: -20°C to 37°C (-4°F to 98.6°F)
 - 30W for 48VDC: -20°C to 45°C (-4°F to 113°F)

Storage

- Storage: -30°C to 75°C (-22° to 167°F)

Relative Humidity

- Relative Humidity: 85% +/-5%
- Operating Altitude: -304.8 to 2,000m.
- BTU/Hr. (eBridge1PCRXTX, approx.):
 - 24VDC: 18 BTU/Hr.
 - 56VDC: 26 BTU/Hr.

Lifetime Warranty