

## eBridge1PCT

### IP and PoE over Coax Hardened Transceiver

#### Description

Altronix eBridge1PCT CAT5 to Coax cable Ethernet adapter delivers data and power over the coax cable in a PoE-compliant format. The transceiver enables fast 10/100Base-T Ethernet digital communication to be transmitted over Coax cable. A compatible eBridge receiver sends power over the coax to the eBridge1PCT transmitter under PoE protocol. The eBridge1PCT, in turn, delivers that PoE compliant power to a PoE-enabled camera or IP device. These plug and play units facilitate system upgrades from analog to IP cameras/devices utilizing existing legacy Coax and eliminating the costs and labor associated with installing new network cabling. In addition, data transmission and power over the Coax is possible up to 500m in comparison to 100m Ethernet maximum distance. A maximum range from headend to the PoE camera/device is 700m, taking into consideration that up to 100m of structured cable may be deployed at each end.



eBridge1PCT

#### Key Features

- IEEE 802.3af (15W) compliant.
- 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 / Made in the U.S.A.

#### Compatible Receivers:



#### eBridge 1PCR

Transmits IP video/data over coax up to 500m @ 25Mbps.  
Supports PoE (IEEE 802.3af).  
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.



#### eBridge PCRX and PCRM Series

##### Up to Sixteen (16) Port IP and PoE/PoE+ Receivers

Transmit IP video/data over coax up to 500m @ 25Mbps.  
Support PoE (IEEE 802.3af) or PoE+ (IEEE 802.3at).  
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.



#### eBridge8E

##### 8-Port Managed EoC Receiver with Integral PoE+ Switch

Transmit IP video/data over coax up to 500m @ 25Mbps.  
8 ports with 30W full power per port. 1Gb uplink (10/100/1000).  
Supports PoE (IEEE 802.3af) or PoE+ (IEEE 802.3at).  
UL/cUL Listed (UL60950-1). CE Approved.



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### Specifications

#### Input

Operating power provided by eBridge receiver.  
Power consumption: 1.5W.

#### 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)

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

#### Agency Listings

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

#### Physical and Environmental

**Dimensions (H x W x D)**  
2.5" x 4.375" x 1" (63.5mm x 111.1mm x 25.4mm).

#### Weight (approx.)

|                 |                      |
|-----------------|----------------------|
| Product Weight  | 0.25 lbs. (0.11 kg). |
| Shipping Weight | 0.6 lbs. (0.27 kg).  |

#### Temperature

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

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

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