

# eBridge1PCR

## IP and PoE over Coax Receiver



Altronix eBridge1CT IP over Coax transceiver is designed for use with eBridge1CR, eBridge4CR, and eBridge16CR receivers to enable fast 10/100Base-T Ethernet digital communication over coax cable. This plug and play unit facilitates 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 is extended up to 610m (over five times the 100m Ethernet maximum length), eliminating the need for repeaters. eBridge units transmit composite video signal with Ethernet data simultaneously.



eBridge1PCR

### 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, and HD1080 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

### Compatible Transceivers:



eBridge1PCT

#### eBridge1PCT IP and PoE over Coax Hardened Transceiver

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



eBridge1PCTX

#### eBridge1PCTX IP and PoE/PoE+ over Coax Hardened Transceiver

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



eBridge1ST

#### eBridge1ST IP and PoE/PoE+ over Coax Hardened Mini Transceiver

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

### Lifetime Warranty

## Specifications

### Input

**Voltage:**  
24VDC Class 2 power supply (polarity not observed) or  
24VAC Class 2 plug-in transformer

**Power Consumption (under maximum load):**  
24VDC/1,000mA, 24VAC/900mA

### Ethernet

Connectivity: RJ45, auto-crossover  
Wire type: 4-pair Cat-5 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                   |
| Yellow LED                   | PoE ON                                 |
| Green LED                    | Power ON                               |
| 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)**  
3.5" x 4.375" x 1" (88.9mm x 111.1mm x 25.4mm)

#### Weight (approx.)

|                 |                       |
|-----------------|-----------------------|
| Product Weight  | 0.275 lbs. (0.125 kg) |
| Shipping Weight | 0.6 lbs. (0.27 kg)    |

#### Temperature

|                  |                                |
|------------------|--------------------------------|
| <b>Operating</b> |                                |
| For 15W:         | -20°C to 45°C (-4°F to 113°F)  |
| For 30W (24VDC): | -20°C to 37°C (-4°F to 98.6°F) |
| For 30W (48VDC): | -20°C to 45°C (-4°F to 113°F)  |
| <b>Storage</b>   | -20°C to 70°C (-4° to 158°F)   |

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

### Lifetime Warranty