



eBridge1PCTX



### **Overview**

The eBridge1PCTX - IP over Coax transceiver is designed for use with eBridge1PCRX, eBridge1PCRM, eBridge4PCRX and eBridge16PCRX receivers to enable fast 10/100Base-T Ethernet digital communication over coax cable. The eBridge1PCTX will not deliver power to non compliant devices, thus avoiding damage to improperly connected non-PoE cameras/devices. 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.

### **Specifications**

#### **Input:**

- Powered by eBridge receiver.

#### **Power Consumption (under maximum load):**

- Powered by eBridge receiver.

#### **Ethernet:**

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5 or better structured cable.
- Distance: up to 100m.
- Speed: 10/100BaseT, half/full duplex, auto negotiation. PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W) delivered to camera by eBridge1PCTX. Power provided by eBridge Plus receivers to eBridge1PCTX by PoE protocol.
- Throughput is rated to pass 25mbps of data at distances up to 457m with proper headend equipment which supports Megapixel, HD720, HD1080.

#### **Coax:**

- Distance: up to 457m for power delivery of coax.
- Connectivity: BNC, RG-59/U or similar.

#### **LED Indicators:**

- Blue LED - Coax link connection.
- Green LED - PoE from eBridge1PCRX.

#### **Environmental:**

- Operating Temperature:  
-4°F to 120.2°F (-20°C to +49°C).
- Storage Temperature:  
-22° to 158°F (-30° to +70°C).
- Humidity: 20 to 85%, non-condensing.

#### **Electrical:**

- BTU/Hr.:
  - 24VDC: 12.28 BTU/Hr.
  - 24VAC: 11.1 BTU/Hr.

#### **Functions:**

- Auto detection and protection of legacy non-PoE cameras/devices.

#### **Applications:**

- Retrofit digital IP cameras in an analog CCTV installation.
- Works with Megapixel, HD720, HD1080 and VGA (SD) cameras.
- Extend Network link distance in an industrial environment over 610m.
- Upgrade deployed CCTV Coax to a digital network in Retail, Hospitality, Arenas, Casinos, Airports, Schools, Hospitals, Transportation, etc.

#### **Mechanical:**

- Dimensions (W x L x H approx.):  
2.5" x 4.375" x 1" (63.5mm x 111.125mm x 25.4mm).
- Product Weight: 0.21 lbs (0.09 kg).  
Shipping Weight: 1 lbs (0.45 kg).

### **Agency Approvals**



UL/CUL Listed for Information  
Technology Equipment (UL 60950-1).



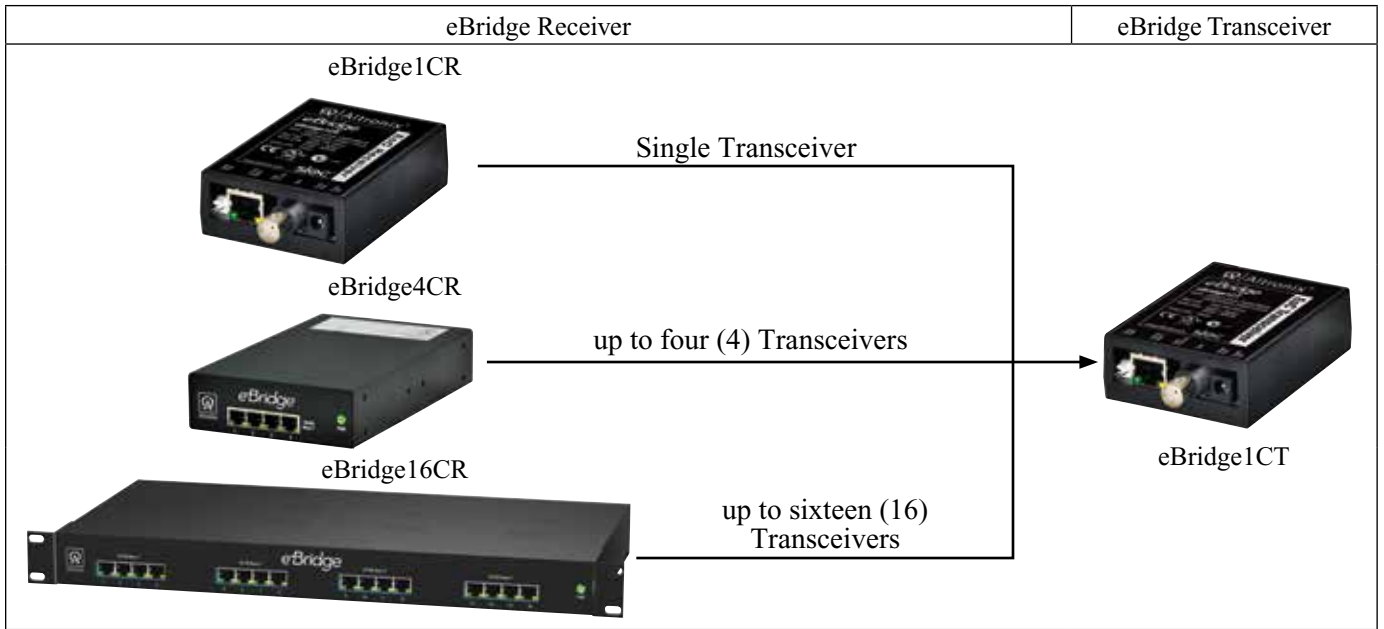
European Conformity



C-Tick Approved - Z1409

## **eBridge Receiver / eBridge Transceiver Compatibility:**

Ethernet over Coax Solutions.



## **eBridge Plus Receiver / eBridge Plus Transceiver Compatibility:**

Ethernet and Power over Coax Solutions.

