

## Overview



eBridge16PCRX



The eBridge16PCRX is a CAT5 to Coax cable Managed Ethernet Midspan receiver. The receiver enables fast 10/100Base-T Ethernet digital communication to be received over Coax cable. An eBridge16PCRX receiver sends power over the coax to the eBridge1PCT 15.4W (PoE) or eBridge1PCTX 30W (PoE+) transmitter under PoE protocol.

The eBridge1PCT/PCTX in turn delivers that power to a PoE enabled camera or IP device. The eBridge16PCRX will not deliver power to non-compliant devices, thus avoiding accidental power turn into improperly connected analog cameras. 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 1500 ft. in comparison to 100m (328 ft.) Ethernet maximum distance. A maximum range from head end to the PoE camera/device is 610m (2000 ft.) taking into consideration that up to 100m (328 ft.) of structured cable may be deployed at each end.

## Specifications

### Agency Listings:

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

### sloc™ Compliant:

- Incorporates \*sloc™ (Security Link over Coax) technology.

### Input:

- 48VDC to 56VDC UL Listed power supply (attention to observe polarity).  
Note: Use 54V to 56V power supply to achieve full power per IEEE802.3 at standard.

### Power Consumption

(per input for max. load; 2 inputs, each powers 8 channels):

- 48VDC/6A, 56VDC/6A per Input, Total current 12A.  
eBridge1PCTX (30W): Powered by eBridge16PCRX.  
eBridge1PCT (15W): Powered by eBridge16PCRX.

### Ethernet:

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair Cat-5 or better structured cable.
- Distance: up to 328 ft. (100m).
- Speed: 10/100BaseT, half/full duplex, auto negotiation.
- Throughput is rated to pass 25mbps of data at distances up to 1500 ft. With proper headend equipment, multiple Megapixel cameras can be used.

### Coax:

- Distance: up to 1,500 ft.
- Connectivity: BNC, RG-59/U or similar.

### LED Indicators:

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

### Environmental:

- Operating Temperature: 14°F to 122°F (–10°C to +50°C).
- Storage Temperature: –22° to 158°F (–30° to +70°C) Storage.
- Humidity: 20 to 85%, non-condensing.

### 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.
- Upgrade deployed CCTV Coax to a digital network in Retail, Hospitality, Arenas, Casinos, Airports, Schools, Hospitals, Transportation, etc.

### Accessories:

- **eBridge1PCT:** Single port ethernet/PoE transceiver.
- **eBridge1PCTX:** Single port ethernet/PoE or PoE+ transceiver.
- **VertiLine563:** 56VDC Rack Mount Power Supply/Charger.
- **RE2:** Rack mount battery enclosure. Accommodates up to four 12VDC/7AH batteries (batteries not included).

### Mechanical:

- Dimensions (H x W x D approx.): 1.625" x 19.125" x 8.5" (41.275mm x 486mm x 216mm)

\* sloc is a registered trademark of Intersil Corporation.

## Agency Approvals



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



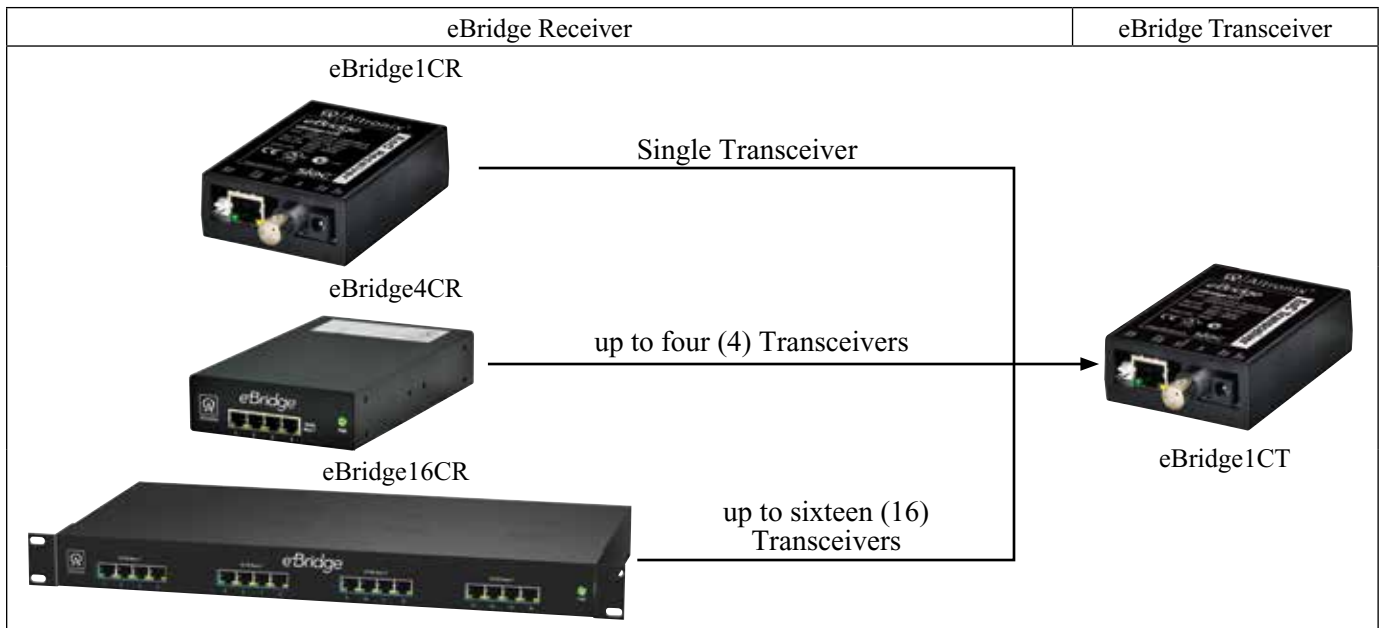
C-Tick Approved - Z1409



European Conformity

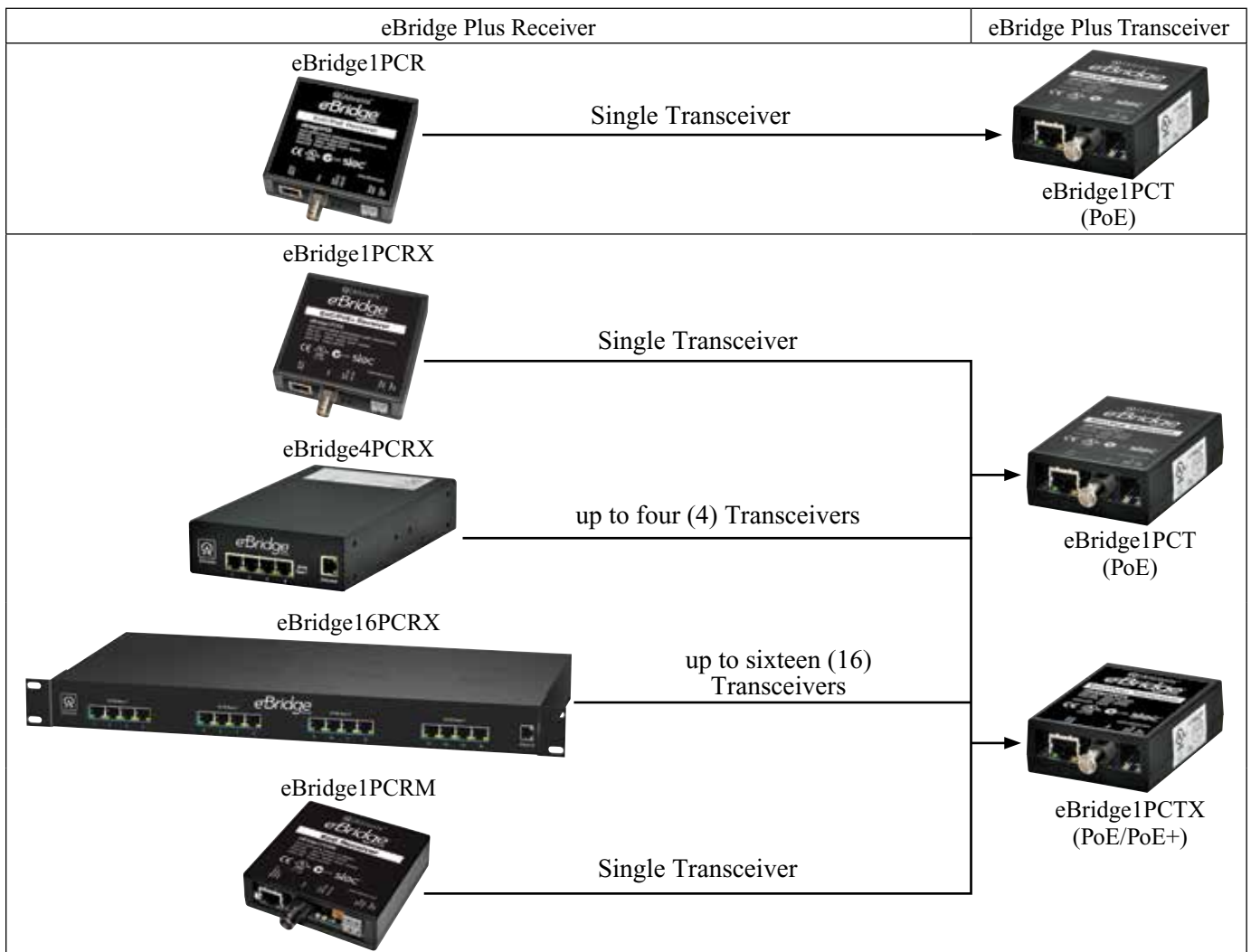
### **eBridge Receiver / eBridge Transceiver Compatibility:**

## Ethernet over Coax Solutions.



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

## Ethernet and Power over Coax Solutions.



***Enclosure Dimensions (H x W x D approximate):***  
1.625" x 19.125" x 8.5" (41.275mm x 486mm x 216mm)

