

# eBridge PCRM Series

IP and PoE/PoE+ over Coax Solution Multi-Port Receivers



Altronix eBridge4PCRM, eBridge8PCRM, and eBridge16PCRM are four (4), eight (8) and sixteen (16) port EoC Receivers that transmit data and power over coax cable in a PoE- compliant format. They are powered by a UL Listed limited power source such as a midspan or endspan. Units pass PoE/PoE+ up the coax to an eBridge1PCT, eBridge1PCTX or eBridge1ST transceiver. The transceiver, in turn, delivers that PoE-compliant power to an edge device/camera. These plug and play units facilitate system upgrades from analog to IP utilizing existing legacy Coax and eliminate 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 headend 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.



eBridge4PCRM  
eBridge8PCRM  
eBridge16PCRM

## Key Features

- IEEE 802.3af (15W) and IEEE 802.3at (30W)
- 25Mbps of data at distances up to 500m over Coax
- 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

## 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

## eBridge PCRM Series

IP and PoE/PoE+ over Coax Solution Multi-Port Receivers

### Specifications

#### Input

Powered by a UL Listed limited power source, PoE midspan or endspan

#### Ethernet

Connectivity: RJ45, auto-crossover

**eBridge4PCRM:** Four (4) ports

**eBridge8PCRM:** Eight (8) ports

**eBridge16PCRM:** Sixteen (16) ports

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)

##### Yellow and Green LED (by RJ45 jack):

IP Link status, 10/100Base-T/active

**Green LED:** PoE ON

**Blue LED:** Coax link connection

#### 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)

##### eBridge4PCRM:

Enclosure:

5.25" x 9.25" x 1.7" (133.4mm x 235mm x 43.8mm)

Shipping:

13" x 10" x 6" (330.2mm x 254mm x 152.4mm)

##### eBridge8PCRM and eBridge16PCRM:

Enclosure:

1.625" x 19.125" x 8.5" (42mm x 486mm x 216mm)

Shipping:

20.25" x 12.5" x 5.5" (514.4mm x 317.5mm x 139.7mm)

#### Weight (approx.)

Model	Product Weight	Shipping Weight
eBridge4PCRM	1.35 lb. (0.61 kg)	1.7 lb. (0.77 kg)
eBridge8PCRM	5.8 lb. (2.63 kg)	7.8 lb. (3.54 kg)
eBridge16PCRM	7.2 lb. (3.27 kg)	9.2 lb. (4.17 kg)

#### Temperature

Operating: - 20°C to 49°C (- 4°F to 120.2°F)

Storage: - 30°C to 70°C (- 22° to 158°F)

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

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

### Accessories (order separately)



NetWay8M



#### NetWay8M and NetWay16M

Provide input power for Pace receivers.

Eight (8) or sixteen (16) port managed midspans.

UL/cUL Listed (UL60950-1 and UL294). CE European Conformity.

#### Lifetime Warranty