

eBridge PCRM Series

IP and PoE/PoE+ over Coax Solution

Multi-Port Receivers

Description

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 mid-span 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 Approved.
- C-Tick compliant.
- Lifetime Warranty / Made in the U.S.A.

Compatible Transceivers



eBridge1PCT

IP and PoE over Coax Hardened Transceiver

Delivers IP video/data over coax up to 457m @ 25mbps.
Supports PoE (IEEE 802.3af).
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.



eBridge1PCTX

IP and PoE/PoE+ over Coax Hardened Transceiver

Delivers IP video/data over coax up to 457m @ 25mbps.
Supports PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at).
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.



eBridge1ST

IP and PoE/PoE+ over Coax Hardened Mini Transceiver

Delivers IP video/data over coax up to 457m @ 25mbps.
Supports PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at).
CE Approved.

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 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)

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 (H x W x D)
eBridge4PCRM:
1.7" x 5.25" x 9.25" (43.8mm x 133.35mm x 235mm).
eBridge8PCRM and eBridge16PCRM:
1U rack mount chassis for use in standard EIA 19" rack.
1.625" x 19.125" x 8.5" (42mm x 486mm x 216mm).

Product/Shipping Weight (approx.)

Model	Product Weight	Shipping Weight
eBridge4PCRM	1.35 lbs. (0.61 kg)	1.7 lbs. (0.77 kg)
eBridge8PCRM	5.8 lbs. (2.63 kg)	7.8 lbs. (3.54 kg)
eBridge16PCRM	7.2 lbs. (3.27 kg)	9.2 lbs (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 (-1000 to 6,561.679 ft.).

Accessories



NetWay8M



NetWay8M and NetWay16M

Provides input power for eBridge receivers.
Eight (8) or sixteen (16) port managed midspans.
UL/cUL Listed (UL60950-1 and UL294). CE Approved.