

eBridge PCRX Series

IP and PoE/PoE+ over Coax Solution

Multi-Port Receivers

Description

Altronix eBridge4PCRX, eBridge8PCRX, and eBridge16PCRX 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 48VDC to 56VDC UL Listed limited power source. 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.



eBridge4PCRX
eBridge8PCRX
eBridge16PCRX

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 500m @ 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 500m @ 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 500m @ 25Mbps.
Supports PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at).
UL/cUL Listed (UL60950-1). CE Approved.

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Specifications

Input

Powered by a 48VDC to 56VDC UL Listed limited power source.
Note: Use 54V to 56V power supply to achieve full power per IEEE802.3 at standard.

Ethernet

Connectivity: RJ45, auto-crossover.
 eBridge4PCRX - Four (4) ports.
 eBridge8PCRX - Eight (8) ports.
 eBridge16PCRX - 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 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.

Physical and Environmental

Dimensions (H x W x D)

eBridge4PCRX:
 1.7" x 5.25" x 9.25" (43.8mm x 133.4mm x 235mm).

eBridge8PCRX and eBridge16PCRX:
 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
eBridge4PCRX	1.35 lbs. (0.61 kg)	1.7 lbs. (0.77 kg)
eBridge8PCRX	5.8 lbs. (2.63 kg)	7.8 lbs. (3.54 kg)
eBridge16PCRX	7.2 lbs. (3.27 kg)	9.2 lbs. (4.17 kg)

Temperature

Operating: -10°C to 50°C (14°F to 122°F).
Storage: -30°C to 70°C (-22° to 158°F).

Relative Humidity: 85% +/-5%.

Operating Altitude: -304.8 to 2,000m.

Accessories



VertiLine563



VertiLine563

Provides input power for eBridge receivers.
 Dual independent power supply with optional battery backup.
 UL/cUL Listed (UL60950-1). CE Approved.