

eBridge1PCR

IP and PoE over Coax Receiver

Description

Altronix eBridge1PCR single port EoC Receiver transmits data and power over coax cable. eBridge1PCR generates PoE up the coax to an eBridge1PCT transceiver. The transceiver in turn delivers that PoE compliant power to an edge device/camera. This plug and play unit facilitates system upgrades from analog to IP utilizing existing legacy Coax and eliminates 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 610m, 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.



eBridge1PCR

Key Features

- IEEE 802.3af (15W).
- Throughput is rated to pass 25Mbps at distances up to 500m.
- 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, and HD1080 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

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.

eBridge1PCR IP and PoE over Coax Receiver

Specifications

Input

Voltage:
24VDC Class 2 power supply (polarity not observed) or
24VAC Class 2 plug-in transformer.

Power Consumption (under maximum load):
24VDC/1,000mA, 24VAC/900mA.

Ethernet

Connectivity: RJ45, auto-crossover.
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)

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

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)
3.5" x 4.375" x 1" (88.9mm x 111.1mm x 25.4mm).

Weight (approx.)

| | |
|-----------------|------------------------|
| Product Weight | 0.275 lbs. (0.125 kg). |
| Shipping Weight | 0.6 lbs. (0.27 kg). |

Temperature

| | |
|------------------|---------------------------------|
| Operating | |
| For 15W: | -20°C to 45°C (-4°F to 113°F). |
| For 30W (24VDC): | -20°C to 37°C (-4°F to 98.6°F). |
| For 30W (48VDC): | -20°C to 45°C (-4°F to 113°F). |
| Storage | -20°C to 70°C (-4° to 158°F). |

| | |
|---------------------|--|
| Relative Humidity | 85% +/-5%. |
| Operating Altitude: | -304.8 to 2,000m. |
| BTU/Hr (approx.): | 24VDC: 18 BTU/Hr. 56VDC: 26 BTU/Hr. |