Altronix®

Rev. 07112025

eBridge1PCT

IP and PoE over Coax Hardened Transceiver

eBridge PLUS

Altronix eBridge1PCT CAT5 to Coax cable Ethernet adapter delivers data and power over the coax cable in a PoE-compliant format. The transceiver enables fast 10/100Base-T Ethernet digital communication to be transmitted over Coax cable. A compatible eBridge receiver sends power over the coax to the eBridge1PCT transmitter under PoE protocol. The eBridge1PCT, in turn, delivers that PoE compliant power to a PoE-enabled camera or IP device. 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 500m in comparison to 100m Ethernet maximum distance. A maximum range from headend to the PoE camera/device is 700m, taking into consideration that up to 100m of structured cable may be deployed at each end.

eBridge1PCT

Key Features

- IEEE 802.3af (15W) compliant.
- 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, 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 Receivers:

eBridge1PCR

eBridge1PCR - IP and PoE over Coax Receiver

Transmits IP video/data over coax up to 500m @ 25Mbps.
Supports PoE (IEEE 802.3af).
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.

eBridge PCRX and PCRM Series

Up to Sixteen (16) Port IP and PoE/PoE+ Receivers

Transmit IP video/data over coax up to 500m @ 25Mbps.
Support PoE (IEEE 802.3af) or PoE+ (IEEE 802.3at).
UL/cUL Listed (UL60950-1). CE and C-Tick Approved.

eBridge8E

eBridge8E - 8-Port Managed EoC Receiver with Integral PoE+ Switch

Transmits IP video/data over coax up to 500m @ 25Mbps.
8 ports with 30W full power per port. 1Gb uplink (10/100/1000).
Supports PoE (IEEE 802.3af) or PoE+ (IEEE 802.3at).
UL/cUL Listed (UL60950-1). CE Approved.

Lifetime Warranty

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Specifications

Input

Operating power provided by eBridge receiver
Power consumption: 1.5W

Ethernet

Connectivity: RJ45, auto-crossover
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)

Blue LED	Coax link connection
Green LED	PoE from eBridge receiver
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 (W x L x H)
Enclosure: 2.5" x 4.375" x 1" (63.5mm x 111.1mm x 25.4mm)
Shipping: 8" x 6" x 5" (203.2mm x 152.4mm x 127mm)

Weight (approx.)

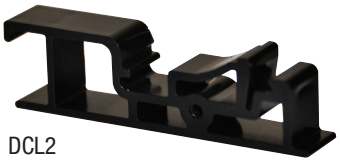
Product:	0.25 lb. (0.11 kg)
Shipping:	0.6 lb. (0.27 kg)

Temperature

Operating:	– 40ºC to 75ºC (– 40ºF to 167ºF)
Storage:	– 40ºC to 75ºC (– 40ºF to 167ºF)

Relative Humidity	85% +/– 5%
Operating Altitude	– 304.8 to 2,000m

Accessories



DCL2

DCL2 - **DIN Rail Mounting Clip**

Allows for easy installation of Altronix adapters utilizing screw mouting holes to mount on a standard DIN rail (Altronix Din Rail models D10, D12, D19, or D24).

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