

eBridge1PCTX IP and PoE/PoE+ over Coax Hardened Transceiver

Description

Altronix eBridge1PCTX CAT5 to Coax cable Ethernet adapter delivers data and power over the coax cable in a PoE/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 eBridge1PCTX transmitter under PoE/PoE+ protocol. The eBridge1PCTX, in turn, delivers that PoE-compliant power to a PoE or 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.



eBridge1PCTX

Key Features

- IEEE 802.3af (15W) and IEEE 802.3at (30W).
- 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 Approved.
- C-Tick compliant.
- Lifetime Warranty / Made in the U.S.A.

Compatible Receivers:



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 8-Port Managed EoC Receiver with Integral PoE+ Switch

Transmit 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.

eBridge1PCTX

IP and PoE/PoE+ over Coax

Hardened Transceiver

Specifications

Input

Powered by eBridge receiver.

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.

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)
2.5" x 4.375" x 1" (63.5mm x 111.1mm x 25.4mm).

Weight (approx.)

Product Weight	0.25 lbs. (0.11 kg).
Shipping Weight	0.6 lbs. (0.27 kg).

Temperature

Operating	
For 15W:	-40°C to 75°C (-40°F to 167°F).
For 30W:	-40°C to 49°C (-40°F to 120.2°F).

Storage	-40°C to 75°C (-40° to 167°F).
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Relative Humidity	85% +/-5%.
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Operating Altitude:	-304.8 to 2,000m.
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