Altronix®

Rev. 07112025

eBridge1PCRMT

IP and PoE/PoE+ over Coax Solution

eBridge PLUS

eBridge1PCRMT is a single port EoC Receiver and hardened Transceiver kit that transmits data and passes power over coax cable. eBridge1PCRM receiver is powered by a PoE midspan or endspan product, such as a NetWay8M and NetWay16M and sends its power over the coax to the eBridge1PCTX tranceiver under PoE protocol. This enables the eBridge1PCRM to be used in a managed manner, allowing for remote camera reset. 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 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.

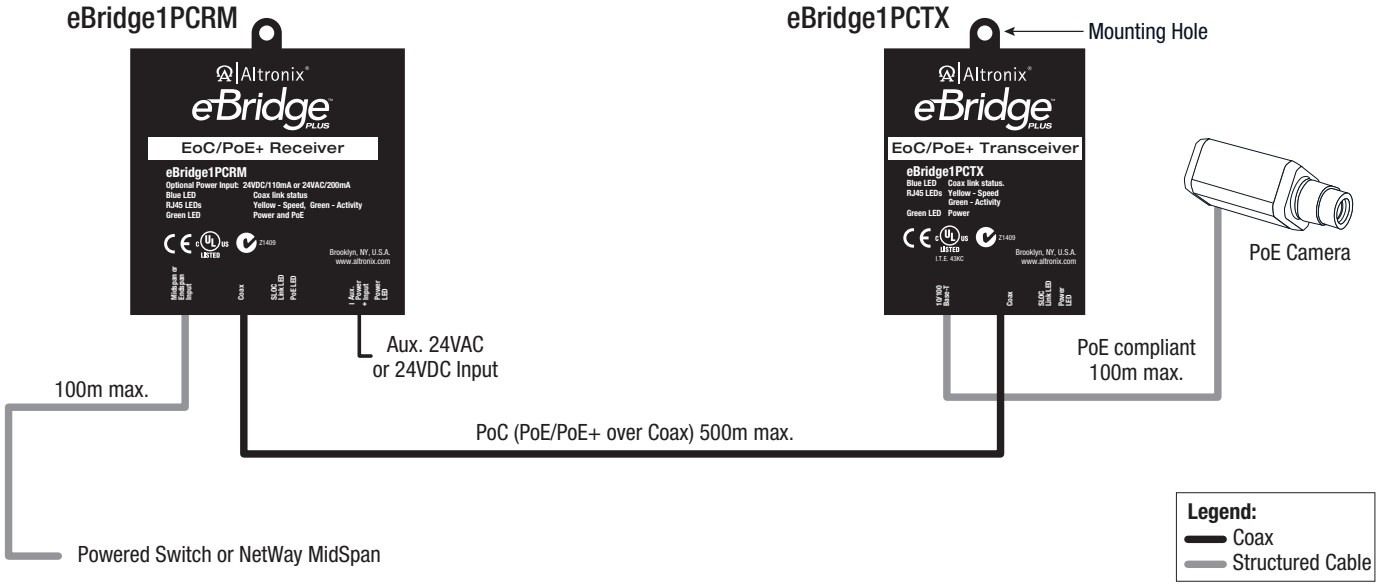
eBridge1PCRM

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 European Conformity
- C-Tick compliant
- Lifetime Warranty

Typical Operation Diagram



Lifetime Warranty

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Specifications

Input

eBridge1PCRM: Powered by midspan or endspan
Alternatively, can be powered by 24VDC/0.11A or 24VAC/0.2A via Aux. Input

eBridge1PCTX: Powered by eBridge1PCRM

Ethernet

Connectivity: RJ45, auto-crossover

Wire type: 4-pair CAT5 or better structured cable

Speed: 10/100BaseT, half/full duplex, auto negotiation

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

Connectivity: BNC, RG-59/U or similar

Indicators (LED)

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

eBridge1PCTX:

Green LED	PoE from eBridge1PCRM

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)

eBridge1PCRM:
Enclosure: 3.5" x 4.375" x 1" (88.9mm x 111.1mm x 25.4mm)

eBridge1PCTX:
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:	0.4 lb. (0.18 kg)
Shipping:	1 lb. (0.45 kg)

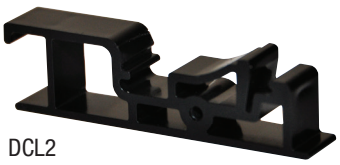
Temperature

Operating:

eBridge1PCTX

For 15W:	– 40ºC to 75ºC (– 40ºF to 167ºF)
For 30W:	– 40ºC to 49ºC (– 40ºF to 120.2ºF)
eBridge1PCRM	– 20ºC to 49ºC (– 4ºF to 120.2ºF)
Storage:	– 30ºC to 70ºC (– 22ºF to 158ºF)
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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