



Overview

eBridge1PCRTX is a single port EoC Receiver and Transceiver kit that transmits data and power over coax cable. eBridge1PCRX generates PoE/PoE+ up the coax to an eBridge1PCTX 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 457m in comparison to 100m Ethernet distance (CAT5e). A maximum range from head end to the edge device/camera is 657m 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. Lifetime warranty. Made in the U.S.A.

Specifications

Input:

- 24VDC to 56VDC Class 2 power supply (polarity observed).

Power Consumption (under maximum load):

- eBridge1PCRX: 24VDC/1,500mA, 56VDC/900mA.
- eBridge1PCTX (30W): Powered by eBridge1PCRX.
- eBridge1PCTX (15W): Powered by eBridge1PCRX.

Ethernet:

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5 or better structured cable.
- Distance: up to 100m.
- Speed: 10/100BaseT, half/full duplex, auto negotiation. PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W) delivered to camera by eBridge1PCTX. Power provided by eBridge1PCRX to eBridge1PCTX by PoE protocol.
- Throughput is rated to pass 25mbps of data at distances up to 457m with proper headend equipment which supports Megapixel, HD720, HD1080.

Coax:

- Distance: up to 457m for power delivery of coax.
- Connectivity: BNC, RG-59/U or similar.

LED Indicators:

- **eBridge1PCRX:**
 - Blue - Coax link connection.
 - Green - PoE ON. Green - Power ON.
 - Yellow and Green - (RJ45) IP Link status, 10/100Base-T/active.
- **eBridge1PCTX:**
 - Blue - Coax link connection.
 - Green - PoE from eBridge1PCRX.

Environmental:

- **Operating Temperature:**
 - eBridge1PCRX:**
 - 15W: -4°F to 113°F (-20°C to +45°C).
 - 30W for 24VDC: -4°F to 98.6°F (-20°C to +37°C).
 - 30W for 48VDC: -4°F to 113°F (-20°C to +45°C).
 - eBridge1PCTX:** -4°F to 120.2°F (-20°C to +49°C).

Environmental (cont'd):

- **Storage Temperature:** -22° to 158°F (-30° to +70°C). Humidity: 20 to 85%.

Electrical:

- BTU/Hr.:
 - 24VDC: 18.43 BTU/Hr.
 - 56VDC: 25.8 BTU/Hr.

Functions:

- Auto detection and protection of legacy non-PoE cameras/devices.

Applications:

- Retrofit digital IP cameras in an analog CCTV installation.
- Works with Megapixel, HD720, HD1080 and VGA (SD) cameras.
- Extend Network link distance in an industrial environment.
- Upgrade deployed CCTV Coax to a digital network in Retail, Hospitality, Arenas, Casinos, Airports, Schools, Hospitals, Transportation, etc.

Accessories:

Input (Power):

- **NetWay1D:** 56VDC Power Supply provides Class 2 power-limited output rated @ 56VDC/60W.

Mechanical:

- Dimensions (W x L x H approx.):
 - eBridge1PCRX: 3.5" x 4.375" x 1" (88.89mm x 111.125mm x 25.4mm)
 - eBridge1PCTX: 2.5" x 4.375" x 1" (63.5mm x 111.125mm x 25.4mm)
- Product Weight: 0.4 lbs. (0.181 kg).
- Shipping Weight: 1 lb. (0.45 kg).

Agency Approvals



UL/CUL Listed for Information
Technology Equipment (UL 60950-1).



European Conformity



C-Tick Compliant
Z1409

eBridge Plus Receiver / eBridge Plus Transceiver Compatibility:

Ethernet and Generated Power over Coax Solutions.

