



eBridge1PCRMT
and eBridge1PCTX



Overview

The eBridge1PCRMT and eBridge1PCTX are CAT5 to Coax cable Ethernet adapters/Media converters that deliver data and power over the coax cable in a PoE+ compliant format. The paired set enables fast 10/100Base-T Ethernet digital communication to be transmitted over Coax cable. An eBridge1PCRMT 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 transmitter under PoE protocol. This enables the eBridge1PCRMT to be used in a managed manner, allowing for remote camera reset. The eBridge1PCTX in turn delivers that PoE+ compliant power to a PoE enabled camera or

IP device. The eBridge1PCRMT will not deliver power to non compliant devices, thus avoiding damage to improperly connected analog cameras. 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 1500 ft. in comparison to 100m (328 ft.) Ethernet maximum distance. A maximum range from head end to the PoE camera/device is 610m (2000 ft.) taking into consideration that up to 100m (328 ft.) of structured cable may be deployed at each end.

Specifications

Agency Listings:

- UL/CUL Listed for Information Technology Equipment (UL 60950-1).
- CE approved.
- C-Tick compliant.

SLOC Compliant:

- Incorporates *sloc™ (Security Link over Coax) technology.

Input:

- Powered by midspan or endspan.

Local Aux. Input Power for eBridge1PCRMT:

- 24VDC/110mA or 24VAC/200mA.

Ethernet:

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5 or better structured cable.
- Distance: up to 100m (328 ft.).
- 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 eBridge1PCRMT to eBridge1PCTX by PoE protocol.
- Throughput is rated to pass 25mbps of data at distances up to 1500 ft. With proper headend equipment, this supports Megapixel, HD720, HD1080.

Coax:

- Distance: up to 1,500 ft. for power delivery of coax.
- Connectivity: BNC, RG-59/U or similar.

LED Indicators:

- eBridge1PCRMT:
Blue LED - Coax link connection (sloc).
Green - PoE ON.
Green - Power ON.

LED Indicators (cont'd):

- eBridge1PCRMT and eBridge1PCTX:
Yellow and Green LED (RJ45) IP Link status, 10/100Base-T/active.
- eBridge1PCTX:
Blue LED - Coax link connection (SLOC).
Green LED - PoE from eBridge1PCRMT.

Environmental:

Operating Temperature:

eBridge1PCRMT:

-4°F to 140°F (-20°C to +60°C).

eBridge1PCTX: -4°F to 140°F (-20°C to +60°C).

Storage Temperature:

-22° to 158°F (-30° to +70°C) Storage.

Humidity: 20 to 85%, non-condensing

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 over 610m (2000 ft.).
- Upgrade deployed CCTV Coax to a digital network in Retail, Casinos, Airports, Schools, Hospitals, etc.

Mechanical:

- Dimensions (W x L x H approx.):

eBridge1PCRMT:

3.5" (88.89mm) x 4.375" (111.125mm) x 1" (25.4mm)

eBridge1PCTX:

2.5" (63.5mm) x 4.375" (111.125mm) x 1" (25.4mm)

* sloc is a registered trademark of Intersil Corporation.

Agency Approvals



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



European Conformity



C-Tick Approved - Z1409