Overview

eBridge800PCRM

eBridge PLUS

The eBridge800PCRM and eBridge100TM are CAT5e 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 100Base-T Full Duplex Ethernet digital communication to be transmitted over Coax cable. The eBridge800PCRM eight (8) port receiver is powered by any UL Listed PoE midspan or endspan product, such as a NetWay8M or NetWay16M, and pass its power over the coax to the eBridge100TM. This enables the eBridge800PCRM to be used in a managed manner, allowing for remote camera reset. The eBridge100TM in turn passes 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 300m in comparison to 100m Ethernet maximum distance. A maximum range from head end to the PoE camera/device is 500m taking into consideration that up to 100m of structured cable may be deployed at each end.

Specifications

Input:
• Powered by a UL Listed limited power source, PoE midspan or endspan.

Ethernet:
• Connectivity: eight (8) RJ45, auto-crossover.
• Wire type: 4-pair CAT5e or better structured cable.
• Distance: up to 100m.
• Speed: 100BaseT, 100mbps full duplex, auto negotiation. PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W) Delivered to camera by eBridge100TM. Power provided by eBridge800PCRM to eBridge100TM by PoE protocol.

Coax:
• Distance: up to 300m for power delivery of coax.
• Throughput is rated to pass 100mbps of data at distances up to 300m full duplex. With proper headend equipment this supports Megapixel, HD720, HD1080.
• Connectivity: BNC, RG-59/U or similar.

LED Indicators:
• **eBridge800PCRM:**
  Blue LED (near BNC) - Coax link connection.
  Yellow and Green LED (RJ45) IP Link status, 100Base-T/active.
• **eBridge100TM:**
  Yellow - PoE ON (by respective RJ45 jack).
  Yellow and Green LED (RJ45) IP Link status, 100Base-T/active.

Environmental:
• Operating Temperature:
  eBridge800PCRM: -4ºF to 120.2ºF (-20ºC to +49ºC).
  eBridge100TM: -4ºF to 120.2ºF (-20ºC to +49ºC).
• Storage Temperature: -22º to 158ºF (-30º to +70ºC).

Environmental (cont'd):
• Relative humidity: 20 to 85%, non-condensing.
• Operating Altitude: -1000 to 6,561.679 ft. (-304.8 to 2000m).

Electrical:
• BTU/Hr.: 409.5 BTU/Hr. max.

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):
  NetWay8M: Eight (8) port Managed Midspan.
  NetWay16M: Sixteen (16) port Managed Midspan.
  Transceiver:
  eBridge100TM: Single port ethernet/PoE or PoE+ transceiver.

Mechanical:
• Dimensions (H x W x D approx.):
  eBridge800PCRM:
  1.625" x 19.125" x 8.5" (42mm x 486mm x 216mm)
  eBridge100TM:
  1" x 2.5" x 4.375" (25.4mm x 63.5mm x 111.125mm)
• Product weight (approx.): 5.8 lbs. (2.63 kg).
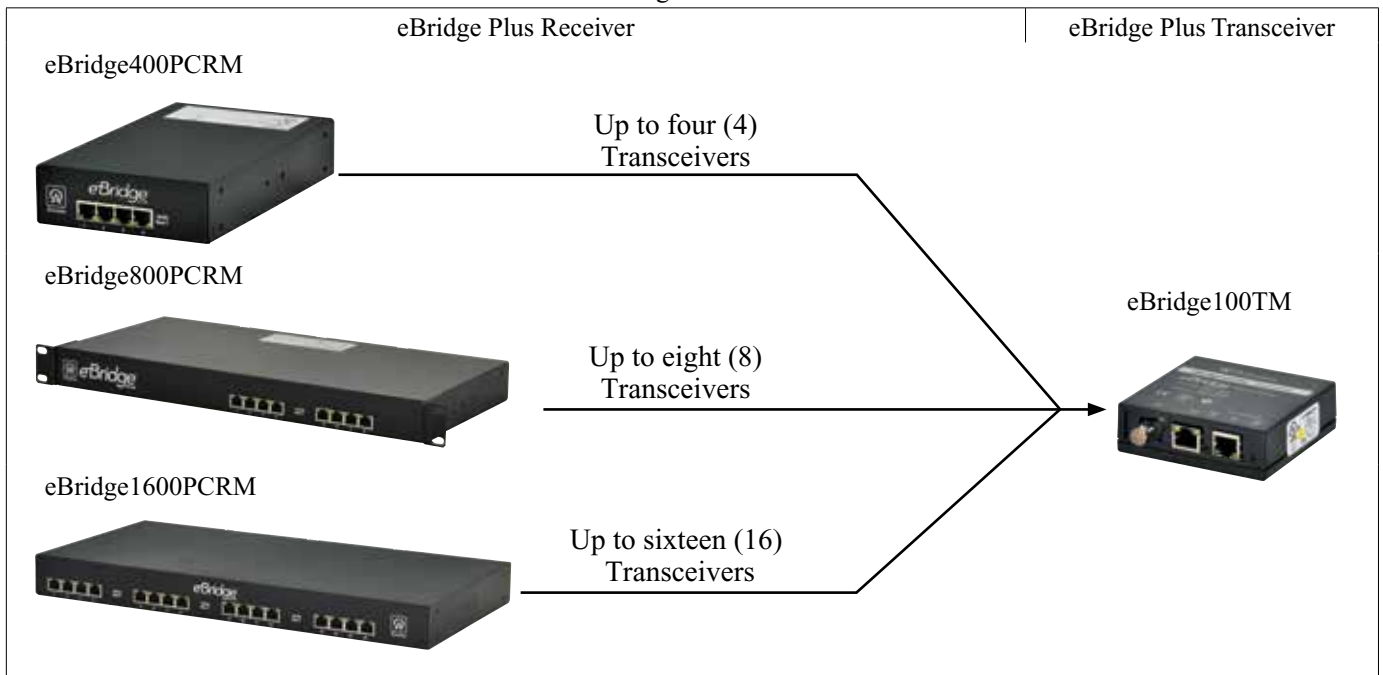• Shipping weight (approx.): 7.8 lbs. (3.54 kg).

Agency Approvals

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

CE European Conformity

eBridge Plus Receiver / eBridge Plus Transceiver Compatibility:

Ethernet and Pass Through Power over Coax Solutions.

eBridge Plus Receiver	eBridge Plus Transceiver

eBridge400PCRM

Up to four (4)
Transceivers

eBridge800PCRM

eBridge100TM

Up to eight (8)
Transceivers

eBridge1600PCRM

Up to sixteen (16)
Transceivers

Enclosure Dimensions _(H x W x D approximate):_

1.625" x 19.125" x 8.5" (42mm x 486mm x 216mm)

0.75"
19.05mm

19.125"
486mm

17.625"
447.7mm

8.5"
216mm

1.625"
42mm