



eBridge16PCRX

eBridge™
PLUS

Overview

eBridge16PCRX is a sixteen (16) port rack mount EoC Receiver that transmits data and power over coax cable. Unit generates PoE/PoE+ up the coax to an eBridge1PCT/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 610m 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. The eBridge16PCRX offers browser based power management and local and remote status monitoring. Lifetime warranty. Made in the U.S.A.

Specifications

Input:

- 48VDC to 56VDC UL Listed power supply (attention to observe polarity).
Note: Use 54V to 56V power supply to achieve full power per IEEE 802.3at standard.

Power Consumption:

(per input for max. load; 2 inputs, each powers 8 channels):

- 48VDC/5.2A, 56VDC/5.2A per Input, Total current 10.4A.
eBridge1PCTX (30W): Powered by eBridge16PCRX.
eBridge1PCT (15W): Powered by eBridge16PCRX.

Ethernet:

- Connectivity: sixteen (16) RJ45, auto-crossover.
- Wire type: 4-pair Cat-5 or better structured cable.
- Distance: up to 100m.
- Speed: 10/100BaseT, half/full duplex, auto negotiation.
- 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.
- Connectivity: sixteen (16) BNC, RG-59/U or similar.

LED Indicators:

- Blue LED - Coax link connection.
- RJ45 LEDs:
Yellow - IP Link status
Green - 10/100Base-T/active.
- Green LED - Power.

Environmental:

- Operating Temperature:
-10°C to +50°C (14°F to 122°F).
- Storage Temperature: -30° to +70°C (-22° to 158°F).

Environmental (cont'd):

- Relative humidity: 85%, +/- 5%, non-condensing.
- Operating Altitude: -1000 to 6,561.679 ft.
(-304.8 to 2000m).

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):

- **VertiLine563:** Two (2) output 56VDC Rack Mount Power Supply/Charger.

Transceivers:

- **eBridge1PCT:** Single port ethernet/PoE transceiver.
- **eBridge1PCTX:** Single port ethernet/PoE or PoE+ transceiver.

Rack Mount Battery Enclosure:

- **RE2:** Rack mount battery enclosure. Accommodates up to four 12VDC/7AH batteries (batteries not included).

Mechanical:

- 1U rack mount chassis for use in standard EIA 19" rack.
- Dimensions (H x W x D approx.):
1.625" x 19.125" x 8.5" (41.275mm x 486mm x 216mm)
- Product weight (approx.): 7.2 lbs. (3.27 kg).
- Shipping weight (approx.): 9.2 lbs. (4.17 kg).

Agency Approvals



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



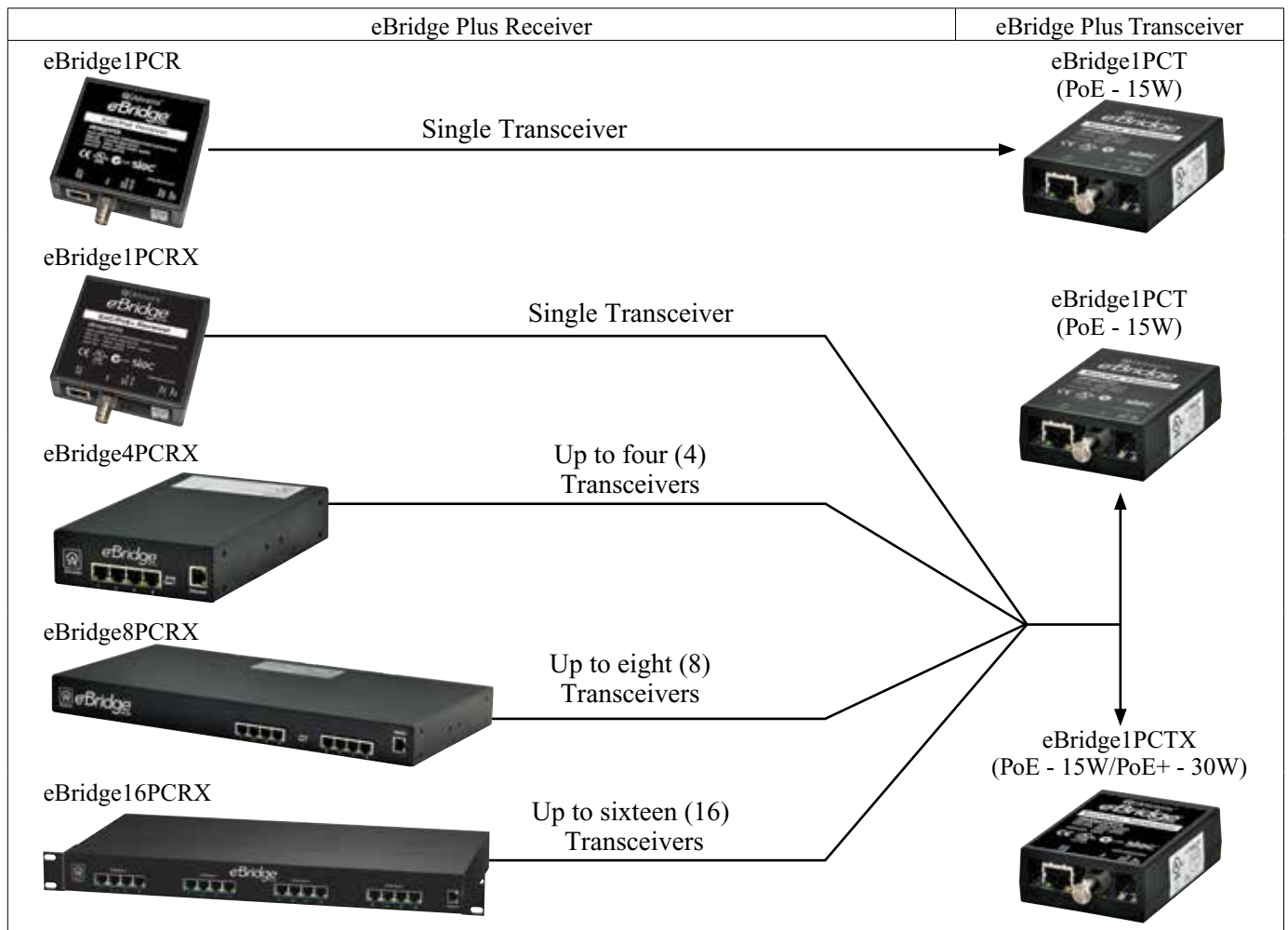
European Conformity



C-Tick Compliant
Z1409

eBridge Plus Receiver / eBridge Plus Transceiver Compatibility:

Ethernet and Generated Power over Coax Solutions.



Enclosure Dimensions (H x W x D approximate):

1.625" x 19.125" x 8.5" (41.275mm x 486mm x 216mm)

