



eBridge100RM



### Overview

eBridge100RM is a versatile dual solution Ethernet receiver/media converter which transmits data at 100Mbps full duplex and power over Coax cable or extended CAT5e cable in a PoE+ compliant format. The eBridge100RM is powered via a PoE midspan such as the Altronix NetWay series or by an endspan. The receiver passes the PoE(+) compliant power over cable to the eBridge100TM/eBridge100ST transceiver which in turn passes this power to an enabled IP Camera/device. These plug and play units facilitate cost effective solutions for IP devices that need to be installed at distances greater than 100m. They also provide a simple way to replace legacy analog products with new IP devices over existing coax or structured cable.

### Specifications

#### Input:

- Powered by midspan or endspan. PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W).

#### Ethernet:

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5.
- Distance: up to 500m.
- 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 eBridge100TM. Power provided by eBridge100RM to eBridge100TM by PoE protocol.
- Throughput is rated to pass 100mbps of data at distances up to 500m.

#### Coax link:

- Distance: Coax 300m for power delivery.
- Connectivity: BNC, RG-59/U or similar.

#### Coax or CAT5e link:

- Distance: CAT5e up to 500m, Coax 300m for power delivery.

#### LED Indicators:

- eBridge100RM and eBridge100TM: Yellow - PoE ON (by respective RJ45 jack).
- eBridge100RM and eBridge100TM: Yellow and Green LED (RJ45) IP Link status, 10/100Base-T/active.

#### Environmental:

- **Operating Temperature:** -20°C to 49°C (-4°F to 120.2°F).
- **Storage Temperature:** -30°C to +70°C (-22°F to 158°F).
- 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.
- Upgrade deployed CCTV Coax to a digital network in Retail, Casinos, Airports, Schools, Hospitals, etc.

#### Compatible Transceivers:

- eBridge100TM: PoE/PoE+ compliant transceiver.
- eBridge100ST: PoE/PoE+ compliant mini-transceiver.

#### Mechanical:

- Dimensions (W x L x H approx.): 3.5" x 4.375" x 1" (88.9mm x 111.1mm x 25.4mm).
- Product weight: 0.25 lbs. (0.11 kg)
- Shipping weight: 0.4 lbs. (0.19 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 Power over Coax Solutions.

