

**Altro ix<sup>®</sup>**

## **eBridge1ST EoC and PoE/PoE+ Transceiver**

Rev. DSeBridge1ST\_02182016



eBridge1ST

**eBridge<sup>PLUS</sup>**

### **Overview**

eBridge1ST EoC transceiver transmits data at 25Mbps over Coax cable to a paired eBridge receiver and provides power in a PoE+ compliant format to an enabled device/camera. The eBridge receiver is available in various options (see compatibility list below/Altronix.com), including built-in midspan, or for use with an external midspan, such as the Altronix Netway series to facilitate network applications. The receiver passes PoE+ power over the same coax cable to the eBridge1ST 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. They can be installed at distances greater than 500m. They provide a simple way to replace legacy analog products with new IP devices over existing coax.

### **Specifications**

#### **Input:**

- PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W) from eBridge receivers.

#### **Compatible Receivers:**

- eBridge1PCRM, eBridge4PCRM, eBridge8PCRM, eBridge16PCRM, eBridge1PCR, eBridge1PCR, eBridge4PCR, eBridge8PCR, eBridge16PCR.
- Visit [www.altronix.com](http://www.altronix.com) for the latest compatibility list.

#### **Ethernet:**

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5.
- Distance: up to 500m.
- Speed: 10/100BaseT, auto negotiation.
- PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W) delivered to camera by eBridge1ST. Power provided by eBridge receiver to eBridge1ST by PoE protocol.
- Throughput is rated to pass 25Mbps of data at distances up to 500m.

#### **Coax Link:**

- Distance: Coax 500m for power delivery.
- Connectivity: BNC, RG-59/U or similar.

#### **LED Indicators:**

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

#### **Environmental:**

- **Operating Temperature:**  
For 15W -40°F to 167°F (-40°C to 75°C).  
For 25W -40°F to 140°F (-40°C to 60°C).
- **Storage Temperature:**  
-40°F to 167°F (-40°C to 75°C).
- 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 IP Megapixel and non-Megapixel 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.

#### **Mechanical:**

- Dimensions (W x L x H approx.):  
2.27" x 2.645" x 1.12"  
(57.66mm x 67.18mm x 28.44mm).
- Product weight: 0.22 lbs. (0.1 kg).
- Shipping weight: 0.4 lbs. (0.18 kg).

### **Agency Approvals**



European Conformity

## **eBridge Plus Receiver / eBridge Plus Transceiver Compatibility:**

Ethernet and Power over Coax Solutions.

