

**Altronix®**

# **eBridge100ST** **EoC and PoE/PoE+ Transceiver**

Rev. DSeBridge100ST\_02182016



## **Overview**

eBridge100ST EoC transceiver transmits data at 100Mbps, Full Duplex 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) and is powered by an external midspan, such as the Altronix Netway series. The receiver passes PoE+ power over the same coax cable to the 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. They can be installed at distances greater than 300m. They provide a simple way to replace legacy analog products with new IP devices over existing coax. eBridge100ST is compatible with the following Altronix receivers: eBridge100RM, eBridge400PCRM, eBridge800PCRM or eBridge1600PCRM.

## **Specifications**

### **Input:**

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

### **Compatible Receivers:**

- eBridge100RM, eBridge400PCRM, eBridge800PCRM, and eBridge1600PCRM. 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, half/full duplex, auto negotiation.
- PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W) Delivered to camera by eBridge100ST. Power provided by eBridge receiver to eBridge100ST 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.

### **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 30W: -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 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.

### **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**



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



European Conformity

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

Ethernet and Power over Coax Solutions.

*Transceiver (eBridge100ST)*



*Single Port  
Receiver  
(eBridge100RM)*



*4, 8 or 16 Port  
Receivers:  
eBridge400PCRM  
eBridge800PCRM  
eBridge1600PCRM*