



### **Overview**

eBridge100RMT Ethernet over Coax/CAT5e Adapter Kits transmit full duplex data at 100mbps and pass PoE compliant power over coax 304m, or CAT5e cable up to 500m without repeaters. The adapter kit consists of an eBridge-e100RM receiver and an eBridge100TM transceiver. These adapters, along with the connected IP camera or edge device, is powered by virtually any midspan or endspan. Remote management functions such as edge device reset, monitoring real-time current draw and port status are possible when coupled with an Altronix NetWay8M/16M Midspan. eBridge100RMT is compatible with Megapixel, HD720, HD1080 and VGA cameras.

### **Specifications**

#### **Agency Listings:**

- UL/CUL Listed for Information Technology Equipment (UL 60950-1).
- CE approved.
- C-Tick compliant.

#### **Input eBridge100RM:**

- 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 CAT5e cable.
- Speed: 10/100BaseT, half/full duplex, auto negotiation. PoE compliant to IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (30W).  
The eBridge100RM receiver passes power over Coax/CAT5e cable to the eBridge100TM transceiver which in turn passes this power to an enabled IP Camera/edge device.
- Throughput is rated to pass 100mbps of data.

#### **Coax:**

- Distance: up to 304m.
- Connectivity: BNC, RG-59/U or similar.

#### **CAT5e or higher:**

- Distance: up to 500m.

#### **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:  
**eBridge100RM:** -4°F to 120.2°F (-20°C to +49°C).  
**eBridge100TM:** -4°F to 120.2°F (-20°C to +49°C).
- Storage Temperature: -4° to 158°F (-20° to 70°C).
- Relative humidity: 85%, +/- 5%, non-condensing.
- Operating Altitude: -1000 to 6,561.679 ft. (-304.8 to 2000m).

#### **Functions:**

- Auto detection and protection of legacy non-PoE cameras/devices.

#### **Applications:**

- Replace legacy analog products with new IP devices over existing coax or CAT5e cable.
- 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, Casinos, Airports, Schools, Hospitals, etc.

#### **Mechanical:**

- Dimensions (W x L x H approx.):  
eBridge100RM/eBridge100TM:  
3.5" x 3.5" x 1" (88.89mm x 88.89mm x 25.4mm).
- Product weight (approx.): 0.45 lbs. (0.2kg).
- Shipping weight (approx.): 0.8 lbs. (0.36kg).

### **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.

