Altronix®

eBridge100STR Kit - Ethernet over Coax/Cat5e Adapters for Extended Distances

eBridge100RM

eBridge100ST

eBridge PLUS

Overview

eBridge100STR is a versatile solution Ethernet adapter/media converter kit which transmits data at 100Mbps full duplex and power over Coax 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 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 provide a simple way to replace legacy analog products with new IP devices over existing coax.

Specifications

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 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 eBridge100RM 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:
- eBridge100RM and eBridge100ST:
  Yellow - PoE ON (by respective RJ45 jack).
- eBridge100RM and eBridge100ST:
  Yellow and Green LED (RJ45) IP Link status, 10/100Base-T/active.

Environmental:
- Operating Temperature:
  eBridge100RM: - 20ºC to +49ºC (- 4ºF to 120.2ºF).

Environmental (cont'd):
  eBridge100ST:
  For 15W: - 40ºC to 75ºC (- 40ºF to 167ºF).
  For 30W: - 40ºC to 60ºC (- 40ºF to 140ºF).
- Storage Temperature: - 30ºC to +70ºC (- 22º to 158ºF).
- 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.):
  eBridge100RM:
  3.5" x 3.5" x 1" (88.89mm x 88.89mm x 25.4mm)
  eBridge100ST:
  2.27" x 2.645" x 1.12" (57.66mm x 67.18mm x 28.44mm)
- Product weight (approx.): 0.25 lbs. (0.11kg).
- Shipping weight (approx.): 0.42 lbs. (0.19kg).

Agency Approvals

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

CE European Conformity

eBridge Plus Receiver / eBridge Plus Transceiver Compatibility:

Ethernet and Power over Coax Solutions.

Transceiver (eBridge100ST)

Single Port Receiver (eBridge100RM)