Altronix®

eBridge1CRT - IP over Coax Kit

Rev. DSeBridge1CRT_08312012

Overview

eBridge1CR

eBridge1CT

The eBridge1CT and eBridge1CR are Ethernet over coax adapters. The paired set enables fast 10/100Base-T Ethernet digital communication to be transmitted over coax cable. These plug and play units facilitate system upgrades from analog to IP cameras/devices utilizing existing legacy Coax and eliminating the costs and labor associated with installing new network cabling. In addition data transmission over the Coax can be extended to 1500' (five times the 100m/328ft Ethernet maximum length), eliminating the need for repeaters. At the same time the units can combine Composite Video Signal with the Ethernet data enabling connection to an analog input on a monitor or matrix switch.

Specifications

Input:
- 12VDC to 24VDC Class 2 power supply (polarity not observed) or 16VAC to 24VAC Class 2 plug-in transformer.

Power Consumption:
- eBridge1CR/eBridge1CT:
  12VDC/275mA, 24VDC/110mA,
  16VAC/375mA, 24VAC/200mA.

Ethernet:
- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair Cat-5 or higher structured cable.
- Distance: up to 328 ft. (100m).
- Speed: 10/100BaseT, half/full duplex, auto negotiation.
- Throughput is rated to pass 25mbps of data at distances up to 1500 ft. With proper headend equipment, multiple Megapixel cameras can be used.

Coax:
- Distance: up to 1,500 ft.
- Connectivity: BNC, RG-59/U or similar.

LED Indicators:
- Blue LED - Coax link connection.
- Yellow and Green LED (RJ45) IP Link status, 10/100Base-T/active.
- Green LED - Power.

Environmental:
- Operating Temperature:
  14ºF to 122ºF (−10ºC to +50ºC).
- Storage Temperature:
  −22º to 158ºF (−30º to +70ºC) Storage.
- Humidity: 20 to 85%, non-condensing.

Electrical:
- BTU/Hr.:
  - 12VDC: 1.69 BTU/Hr.
  - 24VDC: 4.46 BTU/Hr.

Electrical (cont'd):
- BTU/Hr.:
  - 16VAC: 3.07 BTU/Hr.
  - 24VAC: 2.46 BTU/Hr.

Accessories:
- Composite video cables (included) - enables simultaneous composite video signal over the same Coax.
- Two (2) power connectors.

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.
- Upgrade deployed CCTV Coax to a digital network for Retail, Casinos, Airports, Schools, Hospitals, etc.
- Enables simultaneous transmission of composite and digital IP video.

Mechanical:
- Lightweight molded fiberglass reinforced polyester enclosure is corrosion resistant and does not contain halogens.
- Dimensions (W x L x H approx.):
  2.5" (63.5mm) x 3.8" (96.52mm) x 1" (25.4mm)
- Product weight (approx.): 4 oz. (0.11 kg.).
- Shipping weight (approx.): 7 oz. (0.17 kg.).

Units available individually:
- **eBridge1CR:** Ethernet receiver enables IP video/data over Coax. Operates with compatible cameras/devices or eBridge1CT.
- **eBridge1CT:** Ethernet transceiver enables IP video/data over Coax. Operates with eBridge1CR.

Agency Approvals

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

CE European Conformity

C-Tick Approved - Z1409