

eBridge1CT

Ethernet and Video over Coax
(EoC) Transmitter



Overview

Transmit networked IP camera signals over conventional analogue coax infrastructure.

The eBridge1CT is a single-channel IP over coax transmitter that enables fast 10/100Base-T Ethernet digital communications over ordinary coax cable.

This easy to install plug-and-play unit simplifies system upgrades from analogue CCTV to networked IP video security cameras. By re-using existing legacy coax infrastructure, the costs and complexity associated with installing new network cabling are effectively eliminated. As such, the eBridge1CT offers an ideal digital upgrade option for a wide range of security applications, including retail, casinos, airports, schools and hospitals.

The compact transceiver allows composite video as well as digital IP camera signals to be transmitted simultaneously over the same coax cable. In addition, the eBridge1CT extends transmission distances to approx. 600m (over five times the maximum transmission distance over Ethernet), thus eliminating the need for repeaters in larger-scale installations.

The transmitter is compatible with Sony V Series IP cameras and PTZ models. Compatibility with X Series and E Series cameras requires PoE.

The eBridge1CT is designed for use with the eBridge 1CR and eBridge 16CR Ethernet over Coax (EoC) Receivers (available separately).

Features

Easily retrofit IP cameras on analogue CCTV infrastructure

Transmits fast 10/100Base-T Ethernet digital communications over ordinary coax cable.

Transmits fast 10/100Base-T Ethernet digital communications over ordinary coax cable.

Allows re-use of existing legacy coax infrastructure, simplifying digital upgrades and reducing the costs and complexity associated with installing new Ethernet network cabling.

Compatible with wide range of cameras

Supports operation with Standard Definition and High Definition (up to 1080) IP cameras.

Easy operation

Plug and play design allows simple, rapid installation.

Extends transmission range over Ethernet

IP camera signals can be transmitted over coax cable runs up to a distance of up to 600m, eliminating the need for repeaters in larger-scale installations.

Compatible with wide range of IP network cameras

The eBridge1CT is compatible with Sony V Series IP cameras and PTZ models. Compatibility with X Series and E Series cameras requires PoE. It can also be used with other compatible third-party network video devices.

Specifications

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Input	12VDC to 24VDC Class 2 power supply (polarity not observed) or 16VAC to 24VAC Class 2 plug-in transformer.
Power Consumption	12VDC/275mA, 24VDC/110mA, 16VAC/375mA, 24VAC/200mA.
SLOCTM Compliant	Incorporates *SLOCTM (Security Link over Coax) technology.
Ethernet	<ul style="list-style-type: none"> – Connectivity: RJ45, auto-crossover. – Wire type: 4-pair CAT-5 or better structured cable. – Distance: up to 328 ft. (100 m). – Speed: 10/100BaseT, half/full duplex, auto negotiation. – Throughput is rated to pass 25mbps of data at distances up to 1,500 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: 14°F to 122°F (-10°C to +50°C). Storage Temperature: -22° to 158°F (-30° to +70°C) Storage. Humidity: 20 to 85%, non- condensing.
Electrical	BTU/Hr.: VDC: 1.69 - 4.46 BTU/Hr. VAC: 2.46 - 3.07 BTU/Hr.
Accessories	Composite video cable (included) – enables simultaneous composite video signal over the same Coax. Power connector.
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	<p>Lightweight molded fiberglass reinforced polyester enclosure is corrosion resistant and does not contain halogens.</p> <p>Dimensions (W x L x H approx.): 2.5" x 3.8" x 1" (63.5 mm x 96.52 mm x 25.4 mm)</p> <p>Product weight (approx.): 3.4 oz. (0.10 kg).</p> <p>Shipping weight (approx.): 5.4 oz. (0.15 kg).</p>
Additional eBridge models	<p>eBridge1CR: Single port ethernet receiver (use with eBridge1CT or SLOC™ cameras).</p> <p>eBridge1CRT: Single port ethernet receiver and transceiver kit.</p> <p>eBridge4CR: Four (4) port ethernet receiver.</p> <p>eBridge16CR: Sixteen (16) port ethernet receiver.</p>
*	SLOC is a registered trademark of Intersil Corporation.

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