

Easy Migration from Analog to IP Camera over coax

GENERAL DESCRIPTION

Simplify the migration of analog cameras to IP cameras using our advanced HD-PLC technology.

The HD-PLC Ethernet to coax bridge enables fast and easy upgrades from analog to IP cameras, by utilizing the existing coax cable, so there is no need to add new Ethernet cable or remove the old coax cable. The high bandwidth of the IEEE compliant HD-PLC technology enables multiple HD streams to be transmitted over the cable and offers support for 20 IP cameras depending on resolution and distance.

Installation is simple and cameras can easily be dynamically added and/or removed without affecting the rest of the system.. Utilizing the PoC features there is no need to provide additional power to the cameras so no external power supply is required for up to 40 Watts of power at 500M. The Ethernet to coax bridge can also be configured to provide PoE or 12V DC power to a camera.

Evaluation boards, reference design, Software Development Kits (SDK) and Hardware Development Kits (HDK) are available to speed up the development of HD-PLC products.

FEATURES

- Support for over 20 IP camera over a single coax cable
- PoE Support to power camera
- PoC support to send power of coax (40W @ 500M)
- Easy to dynamically add and remove cameras
- IEEE1901 and HD-PLC compliant MAC/PHY
- Maximum PHY rate: 240Mbps
- Low Power consumption:
- 0.4W @full operation
- 0.07W @power save mode
- Long range up to 2KM @30Mbps.
- QoS Support for high definition AV
- 128-bit AES for secure communications
- Software development Kit (SDK) and reference design are available
- Wide operating temperature range: -40°C to 85°

Applications:

- Security and Surveillance
- Bus/Train entertainment/information system

BLOCK DIAGRAM



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