



## EN92010EVK c.LINK™ Home Network Evaluation Kit

As high definition television (HDTV) gains in popularity, so does the consumer's desire to distribute high bandwidth content throughout the home. However, today's networking technology and communication channels were originally designed for data transmission and don't have the bandwidth or error correction topologies necessary to reliably distribute real-time digital content. Not even popular wireless technology has the data rate, quality of service (QoS) or transmission range necessary to reliably stream video throughout the entire home.

Only Entropic's c.LINK™ home networking technology allows consumers to turn their existing coaxial (coax) cable infrastructure into a 250 Mbps digital entertainment networking backbone to easily share digital entertainment content such as video (SDTV and HDTV), music, games and images.

As evidence of the growth of the digital home networking market, a consortium of industry leading companies has formed the Multimedia over Coax Alliance (MoCA™) to promote product interoperability. Incorporating Entropic's c.LINK chipset, the core technology behind the emerging industry standard endorsed by MoCA, into end user products will fast track MoCA certification and accelerate time-to-market.

The c.LINK Home Network Evaluation Kit (EVK) is a complete coax cable home networking system. It offers the user a simple way to verify the performance of Entropic's c.LINK chipset for coax network applications and includes four Ethernet-to-Coax Bridges (ECB) powered by Entropic's c.LINK chipset. The ECBs are easily installed into a home coax network; they do not require changes to the existing home wiring and do not interfere with existing CATV and broadband services.

The bridges are installed using conventional coax cable and can be set up in a home within minutes, enabling Ethernet applications such as video servers, cable modems, game consoles and WLAN access points to be shared seamlessly throughout the home. Each bridge comes equipped with an HTML setup utility modeled after other home network products. Parameters such as RF frequency, IP address and passwords are uniquely entered for each ECB on the network. Remote monitor tools are also available to test the home network physical layer data rate.

Once you are convinced our technology is the right choice, you can arm your developers with a c.LINK Home Network Software Development Kit (SDK). This kit provides all the hardware and software material necessary to incorporate c.LINK technology into your design.



### Features

- > 100 Mbps application data rate
- Four-port 100 Mbps Ethernet switch
- Web-based network management
- User selectable RF channel
- Remote network monitor tools
- Field upgradeable software
- Password protection for access control

### Benefits

- Coexist with all broadband services
- Build MoCA compliant devices
- Easily install into existing home coax network without changing existing wires
- Easily create a High Speed Multimedia coaxial backbone for the home
- Cost effectively assess c.LINK technology
- Reduce up front development costs
- Quickly build demonstrations

## Ethernet-to-Coax Bridge

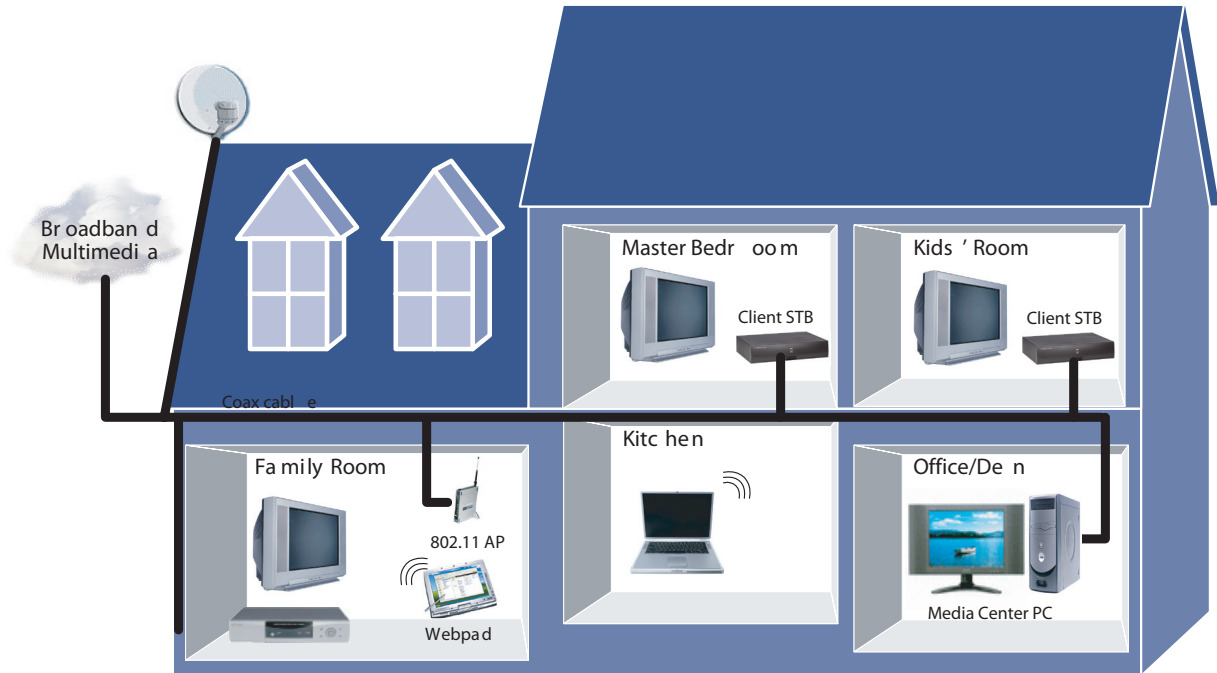
The ECB enables you to quickly begin sending standard Ethernet traffic over your home coax cable network using Entropic's EN1010 Coaxial Network Interface IC and the EN2010 Coaxial Network Controller IC. It provides a convenient GUI for configuring the c.LINK home coax network and is ideal for evaluating the c.LINK technology or for use as a controlled node for embedded development.

## EVK Components

- Four Ethernet-to-Coax Bridges (ECB)
- ECB user manual
- Coaxial network adapters and cables
- Ethernet cables

## Specifications

- 250 Mbps physical data rate per channel
- 800 to 1500 MHz operation
- 50 MHz bandwidth per channel
- 29 RF channels available
- Up to eight bridges supported per RF channel
- 75 dB dynamic range



## Product Reference Information

| Number     | Description  |
|------------|--|
| EN92010EVK | c.LINK Home Network Evaluation Kit (EVK)                 |
| EN92010SDK | c.LINK Linux Home Network Software Development Kit (SDK) |
| EN1010     | Coaxial Network Interface RF Integrated Circuit          |
| EN2010     | Coaxial Network Controller Integrated Circuit            |