



EN92210SDK

EN2210 Coaxial Home Network Software Development 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 technologies and communication channels were originally designed for data transmission and do not 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.

The EN2210 is Entropic's 2nd generation c.LINK™ home networking technology and it allows consumers to turn their existing 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 Software Development Kit (SDK) provides the software and hardware necessary for developers to incorporate reliable, effective c.LINK technology into networking, media server, set-top box, audio, video and gaming devices that meet the MoCA standard. Supporting a Linux OS, the kit provides c.LINK driver source code that developers can compile, build and integrate into their own designs.

For those who wish to assess c.LINK and MoCA technology, an Evaluation Kit (EVK) enabling developers to quickly set up, control and use a high-speed coaxial backbone is also available.



SDK Components

- Complete EN2210 c.LINK driver source code for Linux OS
- Two EN2210 c.LINK Mini-PCI development boards
- Two EN2210 c.LINK MII/GMII development boards
- Two EN2010 c.LINK Ethernet-to-Coax Bridges (ECB)
- Software developers reference guide
 - o Complete API reference documentation
 - o Example test harness source code
- Hardware developers reference material
 - o Complete design documentation
 - Schematics
 - Bill of Materials
 - PCB

Benefits

- Create a high-speed multimedia coaxial backbone for the home
- Build MoCA compliant devices
- Start software development prior to target hardware availability
- Quickly build demonstrations and implement field trials
- Enable porting of the c.LINK driver to other operating systems
- Create and integrate c.LINK based applications
- Rapidly move products into manufacturing and accelerate time-to-market

Ethernet-to-Coax Bridge (ECB)

The ECB is a single port Ethernet bridge powered by the Entropic EN2010 c.LINK chipset, which quickly enables the user to transmit or receive standard Ethernet traffic over a home coaxial cable network. It provides network diagnostic tools, a data logger and a convenient GUI for configuring the c.LINK home coaxial network. The Entropic ECB is ideal for evaluating the c.LINK technology and for use as a controlled node for embedded development.



Mini-PCI Development Platform

The Entropic Mini-PCI development board has a standard Mini-PCI form factor and interface to allow easy integration into many host development platforms and is powered by the c.LINK 2nd generation chipset, which includes the EN1010 Coaxial Network Interface IC and the EN2210 Coaxial Network Processor IC. The Mini-PCI platform is ideal for developing embedded software prior to incorporating it into the host device. The Mini-PCI platform also includes design collateral such as schematics, bill of materials and PCB layout files, which can be used by the developer as a reference for an integrated solution.



MII/GMII Development Platform

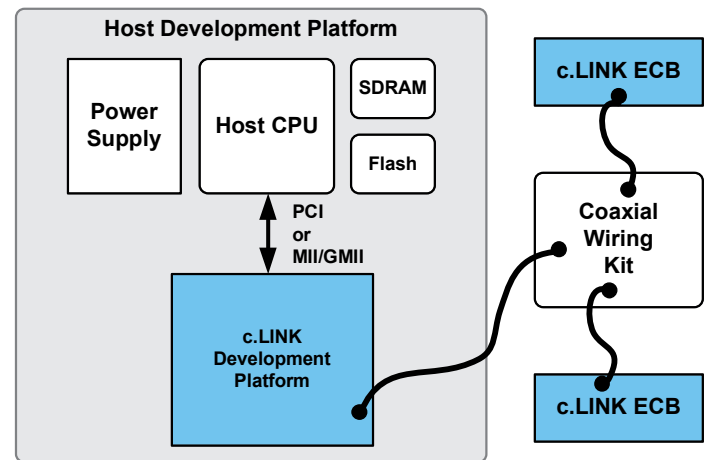
The Entropic MII/GMII development board has industry standard MII and GMII ports to allow easy integration into many host development platforms and is powered by the c.LINK 2nd generation chipset, which includes the EN1010 Coaxial Network Interface IC and the EN2210 Coaxial Network Processor IC. The MII/GMII platform is ideal for developing embedded software prior to incorporating it into the host device. The MII/GMII platform also includes design collateral such as schematics, bill of materials and PCB layout files, which can be used by the developer as a reference for an integrated solution.

Home Coaxial Wiring Kit

This kit is a self-contained coaxial wiring network that emulates the cabling system found in a typical home. The coaxial wiring kit is constructed using standard coaxial cables, splitters, adapters and wall outlets and housed in a heavy-duty plastic case with outlets exposed for easy connection.

Secure Web Access

The purchase of an SDK comes with access to our secure website where you will find the latest application notes, datasheets and white papers to help you avoid design pitfalls and assist in the development of your device.



Ordering Information

Number	Description
EN92210SDK	EN2210 c.LINK Linux Home Network Software Development Kit (SDK)
EN92210SDKU	EN2210 c.LINK Linux Home Network Software Development Kit (SDK) Upgrade
EN92010EVK	c.LINK Home Network Evaluation Kit (EVK)
EN1010	EN1010 Coaxial Network Interface IC
EN2210	EN2210 Coaxial Home Network Processor IC