



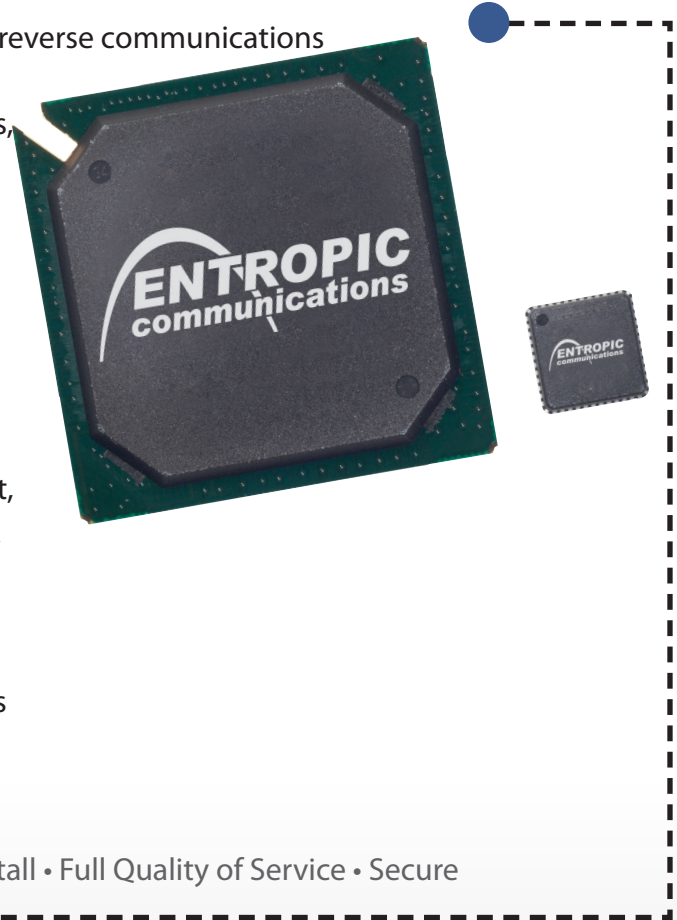
## EN2010 Coaxial Network Controller

Entropic's c.LINK™ technology allows consumers to easily share digital entertainment throughout the home by leveraging the existing coax cable infrastructure to distribute digital content such as video (SDTV and HDTV), music, games and images.

c.LINK, the core technology which enables reverse communications through cable splitters, has been embraced by cable, telco and satellite operators, set-top box OEMs, network equipment OEMs, and consumer electronics OEMs worldwide.

Entropic is a founding member of the Multimedia over Coax Alliance (MoCA), formed to standardize technologies for linking consumer entertainment devices – such as TVs, digital set-top boxes, digital video recorders, DVDs, digital VHS, CD/MP3 players, and PCs – seamlessly throughout the home using its existing coax cabling.

Other MoCA founding members include Cisco Systems, Comcast, EchoStar, Matsushita Electric (Panasonic), Motorola, RadioShack Corporation and Toshiba. MoCA certification will ensure that an entire product portfolio is compliant with today's technology standards – the most efficient way to seamlessly incorporate entertainment home networking into a branded set of products and solutions for the digital home.



No New Wires • High Data Rate • Reliability of Cable • Easy to Install • Full Quality of Service • Secure

### Benefits

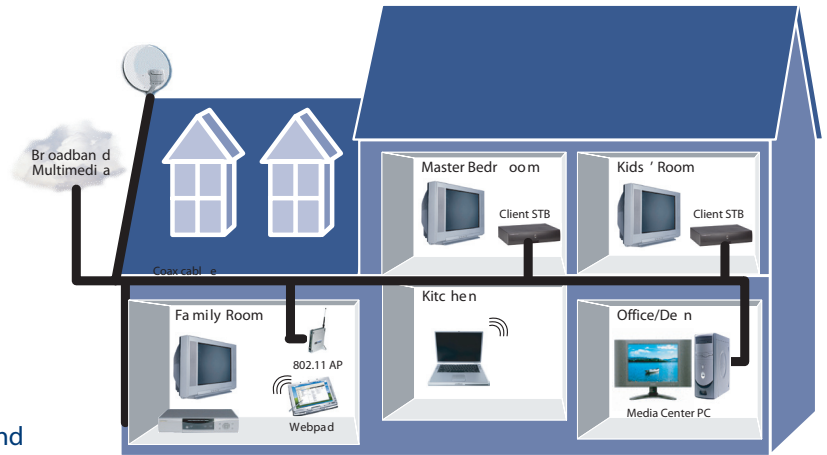
- Seamlessly links consumer entertainment devices from room to room using existing coax wiring
- Up to 270 Mbps through coaxial cable
- Reliably accesses and distributes digital video content, including multiple streams of HDTV
- Offers retail set-top box solution with no professional installation required
- Supports streaming media, including audio, SDTV and HDTV – without compromise
- Easily shares video and data files through a managed and trusted home network

## Applications

- Multi-room HDTV DVR
- PC to TV content sharing
- Multi-room gaming
- Wi-Fi extension
- Home media server with thin clients
- Every room access to all digital content
- FTTP with in-home coax distribution

## Features

- Fully integrated c.LINK Controller for coaxial networks
- Data capacity of 270 Mbps for multiple simultaneous HDTV and SDTV video streams
- Hardware DES encryption for network privacy
- Software Development Kit (SDK), driver source code, and standard API's allows easy product integration
  - o Drivers for Linux
  - o Diagnostic applications
  - o mPCI reference design
- Interfaces
  - o 32-bit PCI 2.2 (33/66 MHz) or 16-bit host-bus
  - o Low cost EEPROM for non-volatile memory
  - o Five GPIO pins
- Compatibility
  - o PCI 2.2 compliant
  - o Eight IEEE 802.1p priorities
- Network Characteristics
  - o Rate adaptation from 20 to 270 Mbps
  - o Constant-delay and low-latency network
  - o TDMA/TDD-fully coordinated MAC, no collisions
  - o Frequency selection for efficient bandwidth utilization
  - o Support up to eight nodes per c.LINK network
- Electrical and Physical Characteristics
  - o 3.3-V I/O, PCI interface (3.3-V/5.0-V)
  - o 3.3-V/1.8-V power supply
  - o EN1010: 48-pin QFN
  - o EN2010: 336-pin Ball Grid Array



**Solution Details**

The c.LINK chipset is a two-chip set:

- EN1010: Coaxial Network Interface
- EN2010: Coaxial Network Controller

## 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