



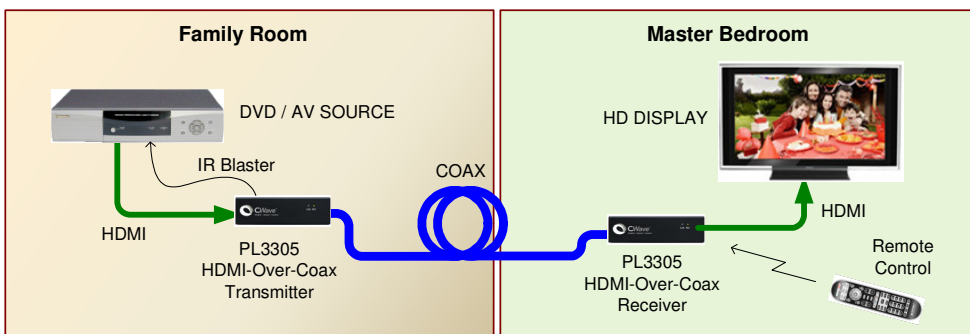
# PL3305 HDMI-Over-Coax RDK

## OVERVIEW

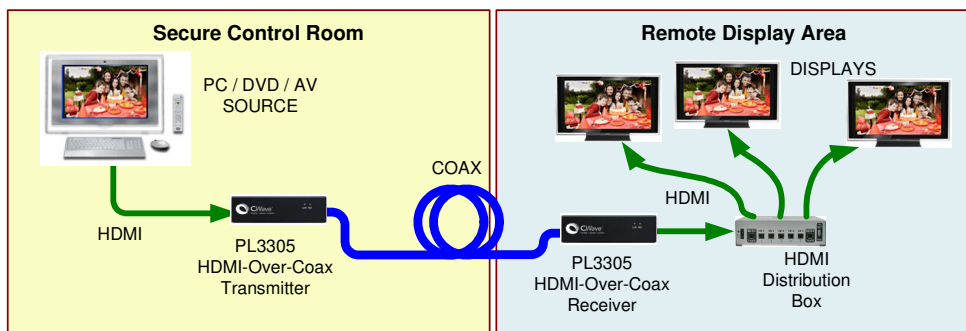
The CWave® HDMI-Over-Coax RDK (PL3305-RDK), based on Pulse~LINK's CWave® PL3100 chipset, is a low cost, small form factor and ready to manufacture reference design enabling customers quick time-to-market. This innovative solution dramatically extends the normal short-range, point-to-point HDMI connection, allowing consumers to view High Bandwidth HD content from entertainment devices at the opposite end of the home over the existing coax network. Pulse~LINK's HDMI-Over-Coax delivers high quality, visually lossless video with multi-channel audio.

The solution operates with an impressive link budget of greater than 80db. This link budget allows high definition video with Dolby Digital 5.1 audio transmission for point-to-point RG-6 coax cable distances up to 450 feet (137 meters). The signals even go through coax networks with splitters installed and co-exist with all standard CATV signals.

### CONSUMER - ROOM-to-ROOM



### COMMERCIAL - DIGITAL SIGNAGE



## APPLICATIONS

- **Extend HDMI Connectivity** over an Existing Coax Network
- **Digital Signage** - Distribute High Quality Media to Multiple Displays
- **Stream High Definition Content Room-to-Room** Across the Home

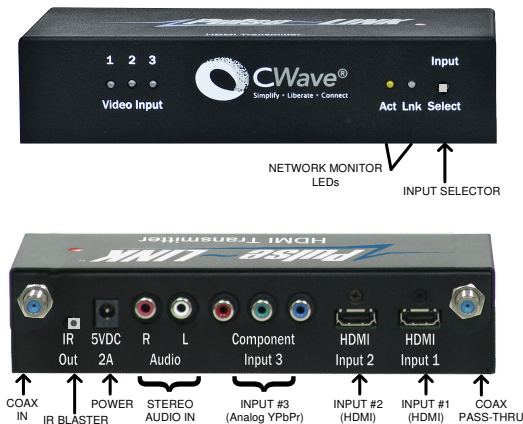
## KEY FEATURES

- No New Wires - works over existing coax cabling and splitters
- Co-exists with CATV/SAT services
- Support for 480i, 480p, 576i, 1080i and 1080p video formats
- Dolby Digital 5.1 support over HDMI
- HDMI Inputs on Transmitter are HDCP Compliant
- Auto-detect incoming format and display on remote HDTV
- Supports Consumer Electronic Control (CEC) pass through
- HDMI v1.2 Compliant on both the Transmitter and Receiver
- IR Blaster support for Remote Control of Source Equipment from a remote location



# PL3305 HDMI-Over-Coax RDK

## PL3305 TRANSMITTER



## PL3305 RECEIVER



### REFERENCE DESIGN KIT CONTENTS

- One Transmitter and One Receiver Unit each with Power Supply Modules
- User's Manual
- PCB design files (schematic, layout and mechanical)
- Bill of Materials
- Firmware and PL3100 Drivers
- Production utilities and test procedures
- CWave® Chipset Datasheets

### SPECIFICATIONS

#### UWB

- Scalable link rates up to 675 Mbps, providing over 400 Mbps total application throughput
- Greater than 80db Link budget
- 3.3 – 4.7GHz frequency range
- Based on IEEE 802.15.3b MAC with Parameterized QoS

#### Front Panel LEDs

- Active Link and Link Activity
- Transmitter – Input Selected
- Receiver – Link Quality

#### Size

- 4 in. W x 1 in. H x 3 in. D

#### I/O Connections

- Integrated 10/100/1000 Base-T Ethernet Network
- Two “F” Connectors – Coax Network – IN / OUT
- Input Power (12V DC)
- Transmitter – Two HDMI Inputs, One Set YPbPr Inputs, L+R Stereo Audio Inputs
- Receiver – One HDMI Output, One Set YPbPr Outputs, L+R Stereo Audio Outputs

#### Key Components

- Pulse-LINK PL3100 CWave® Chipset
- Freescale MPC8313E Processor

#### Power Supply

- External 12V DC

### ORDERING INFORMATION

sales@pulselink.com 760.607.0844 [www.pulselink.com](http://www.pulselink.com)

1969 Kellogg Avenue Carlsbad, California 92008 USA

PL3305-H-RDK	One Pair HDMI-Over-Coax RDK Units (Transmitter and Receiver)
PL3305-D-RDK	HDMI-Over-Coax RDK Design Files

### About Pulse-LINK

Pulse-LINK, Inc. is a fabless semiconductor company offering CWave® Ultra Wideband (UWB) technology for both wireless and wired connectivity of multimedia devices. Pulse-LINK pioneered the commercialization of UWB technology and now holds more than 350 UWB patents.

