HDMI over CAT5e Transmitter with HDMI Loop-Out Installation Guide

Introduction

The *HDMI over CAT5e Transmitter with HDMI Loop-Out* provides a cost effective solution by which high definition video and high quality audio can be transmitted to mulitiple locations over long distances using inexpensive CAT5e/6 cables.

Features and Benefits

- Extends HDMI video/audio transmission to displays over CAT5e/6 cable cabling
- Local HDMI output
- Compliant with HDMI Deep color and 3DTV
- HDCP and DVI compliant
- Transmission: 200ft @ 720p/1080i or 130ft @ 1080p
- Bandwidth: 6.75Gbps
- Allows cascading
- Pure unaltered uncompressed 7.1ch digital HDMI transmission over CATx cable
- Supports HDMI Deep Color and 3DTV
- Supports embedded EDID and EDID learning of the connected HDMI display
- Supports local HDMI display

Package Contents

- *HDMI over CAT5e Transmitter with HDMI Loop-Out*
- Screw kit and 4x rubber pads
- 5V/4A power adapter
- Installation guide

Layout

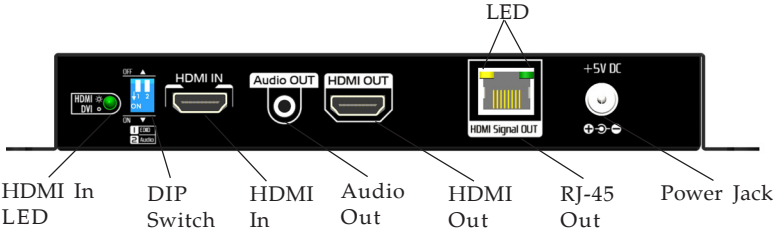


Figure 1: Rear Panel

- HDMI In LED: Lights up when your HDMI source is powered on and working properly
- DIP Switch: See **DIP Switch** section for more information
- HDMI In: Connect your HDMI source via HDMI m-m cable here (cable not included)
- Audio Out: 3.5mm audio jack, plug in your local stereo speakers here
- HDMI Out: Connect a local HDMI display here
- RJ-45 Out: Link to the next transceiver/receiver (optional). The two **LED**s will light up when the transmitter is powered up
- Power Jack: Plug in the included 5V/4A power adapter here

Dip Switch

DIP Switch Position		Video	Audio	Description
Pin 1	Pin 2			
Off (↑)	Off (↑)	Up to 1080p	Surround	Default Mode
Off (↑)	On (↓)	Up to 1080p	Stereo	Safe Mode
On (↓)	Off (↑)	Bypass	Bypass	EDID Learning Mode
On (↓)	On (↓)	Bypass	Stereo	EDID Learning & Stereo Mode

Table 1: DIP Switch Position

- **Default Mode**: 1080p video and 7.1ch surround sound audio. If your HDTV shows video without audio, set DIP switch to **Safe Mode**
- **Safe Mode**: 1080p and stereo output. This setting does not support an HDMI source set to outpu 1080p resolution. Set the HDMI source's output to any resolution less than 1080p or "Auto"
- **EDID Learning / EDID Learning & Stereo Mode**: Power off the Transmitter. Connect your HDTV to the Transmitter's **HDMI Output** via HDMI cable, then set pin-1 at On. Power on the Transmitter and HDTV, wait 5~10 seconds to complete the EDID learning process. To learn the EDID from another HDTV, repeat this procedure

NOTE: Bypass mode may cause compatibility issues when mixing HDMI sources and HDMI displays. If you cannot get satisfactory audio and/or video output, set the DIP switch to **Default Mode** or **Safe Mode**.

Application

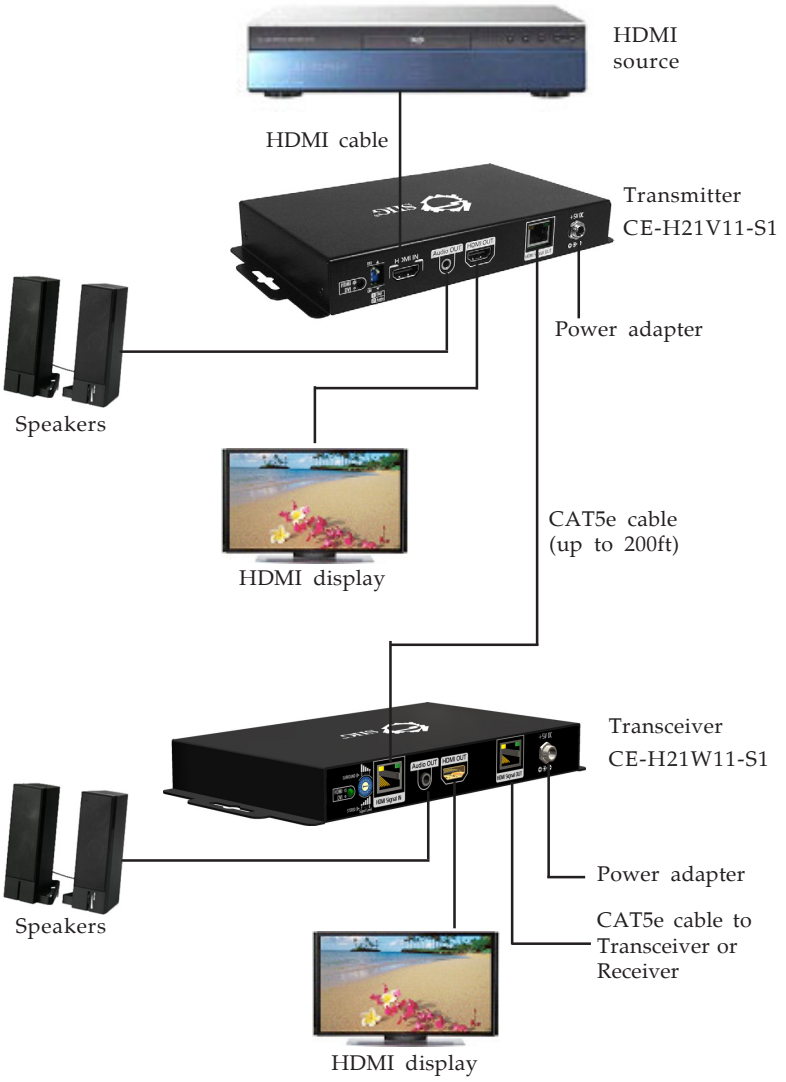


Figure 2: Application

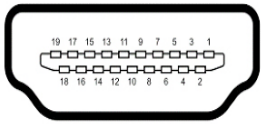
Hardware Installation

Please read and follow the safety guidelines to protect yourself from possible injury and to minimize the risk of damage to your equipment.

- Do not attempt to service the unit yourself.
- Provide proper ventilation and air circulation, do not use near water
- Keep objects that might damage the device a safe distance away, place the unit on a stable surface
- Use only the power adapter and accessories that came with the unit
- Do not use liquid or aerosol cleaners to clean the unit. Always unplug the power to the unit before cleaning

1. Turn off all devices, including displays.
2. Connect a local HDMI display to the **HDMI Out** connector of the Transmitter, then connect a speaker to the **Audio Out** connector.
3. Connect an HDMI source, such as Blu-Ray disc player, to **HDMI In**.
4. Connect the next transceiver (for cascading) or receiver to the **RJ-45 Out** using a CAT5e cable (optional).
5. Plug the included power adapter into the **Power Jack**, then plug the power adapter into a reliable power source.
6. Power on all devices.

HDMI Pin Definition



Pin 1	TMDS Data2+	Pin 11	TMDS Clock Shield
Pin 2	TMDS Data2 Shield	Pin 12	TMDS Clock-
Pin 3	TMDS Data2-	Pin 13	CEC
Pin 4	TMDS Data1+	Pin 14	Reserved (N.C. on device)
Pin 5	TMDS Data1 Shield	Pin 15	SCL
Pin 6	TMDS Data1-	Pin 16	SDA
Pin 7	TMDS Data0+	Pin 17	DDC/CEC Ground
Pin 8	TMDS Data0 Shield	Pin 18	+5V Power
Pin 9	TMDS Data0-	Pin 19	Hot Plug Detect
Pin 10	TMDS Clock+		

Table 2: HDMI Pin Definition

Notice

- T568B CAT cable is recommended for the best performance
- Use shielded STP cables to avoid EMI problems
- A CAT6 cable is recommended for resolutions greater than 1080i or 1280x1024

Performance Rating		Type of category cable		
W iring	Shielding	CAT5	CAT5e	CAT6
Solid	Unshielded (UTP)	***	****	*****
	Shielded (STP)	***	***	****
Stranded	Unshielded (UTP)	*	**	**
	Shielded (STP)	*	*	**
Termination		Please use T568B cable at anytime		

Table 3

Technical Support and Warranty

QUESTIONS? SIIG's **Online Support** has answers! Simply visit our web site at ***www.siig.com*** and click **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and a technical support analyst will promptly respond.

SIIG offers a 3-year manufacturer warranty with this product. This warranty covers the original purchaser and guarantees the product to be free of any defects in materials or workmanship for three (3) years from the date of purchase of the product.

SIIG will, at our discretion, repair or replace (with an identical product or product having similar features and functionality) the product if defective in materials or workmanship. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Please see our web site for more warranty details.

If you encounter any problems with this product, please follow the procedures below.

A) If it is within the store's return policy period, please return the product to the store where you purchased it.

B) If your purchase has passed the store's return policy period, please follow these steps to have the product repaired or replaced.

Step 1: Submit your RMA request. Go to **www.siig.com**, click **Support**, then **Request A Product Replacement** to submit a request to SIIG RMA or fax a request to 510-657-5962. Your RMA request will be processed, if the product is determined to be defective, an RMA number will be issued.

Step 2: After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All software, cable(s) and any other accessories that came with the original package must be included.
- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.
- You are responsible for the cost of shipping to SIIG. Ship the product to the following address:

  SIIG, Inc.
  6078 Stewart Avenue
  Fremont, CA 94538-3152, USA
  RMA #: _____

- SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer.

About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading manufacturer of IT connectivity solutions (including Serial ATA and Ultra ATA Controllers, FireWire, USB, and legacy I/O adapters) that bridge the connection between Desktop/ Notebook systems and external peripherals. SIIG continues to grow by adding A/V and Digital Signage connectivity solutions to our extensive portfolio. All centered around the distribution and switching of A/V signals over CAT5/6, these products include matrix switches, distribution amplifiers, extenders, converters, splitters, cabling, and more.

SIIG is the premier one-stop source of upgrades and is committed to providing high quality products while keeping economical and competitive prices. High-quality control standards are evident by one of the lowest defective return rates in the industry. Our products offer comprehensive user manuals, user-friendly features, and most products are backed by a lifetime warranty.

SIIG products can be found in many computer retail stores, mail order catalogs, and e-commerce sites in the Americas, as well as through major distributors, system integrators, and VARs.

PRODUCT NAME

HDMI over CAT5e Transmitter with HDMI Loop-Out

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

SIIG, Inc.
6078 Stewart Avenue
Fremont, CA 94538-3152, USA
Phone: 510-657-8688

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