

2x8 HDMI 1.3 CAT5e Distribution Amplifier Quick Installation Guide

Introducing the *2x8 HDMI CAT5e Distribution Amplifier*

The *2x8 HDMI 1.3 CAT5e Distribution Amplifier* provides the most flexible solution by which the high definition video and high quality audio can be transmitted to different locations over a long distance.

Features and Benefits

- HDMI 1.3c and HDCP compliant
- Chipset: Silicon Image
- Video bandwidth: 10.2 Gbps (single-link 340MHz)
- Input TMDS signal: 1.2V (peak-to-peak)
- Input DDC signal: 5V (peak-to-peak)
- Resolution: 480i / 480p / 720p / 1080i / 1080p (60Hz)
- Input: 2x HDMI (female, 19-pin)

Package Contents

- *2x8 HDMI 1.3 CAT5e Distribution Amplifier*
- Power adapter (5V)
- 2x Rack mount ears
- Quick installation guide

Layout

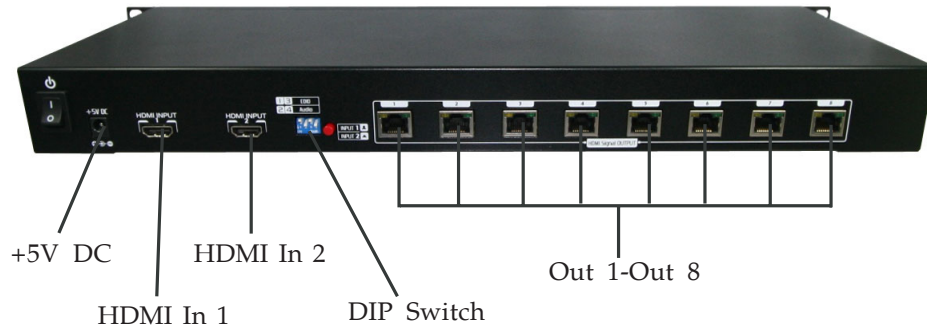


Figure 1: Back Layout

- **+5V DC:** Power jack for 5V4A DC
- **HDMI In 1:** Connect HDMI source #1 here
- **HDMI In 2:** Connect HDMI source #2 here
- **DIP Switch:** See table below
- **Out 1 – Out 8:** RJ-45 Output 1-8 to link to the HDTV(s) over CAT5 and terminated by receiver(s) **CE-H20111-S1** or **CE-H20211-S1**.

Dip Switch

Switch Position		Video	Audio	Description
Pin #1	Pin #2			
Pin #3	Pin #4			
Off	Off	Up to 1080p	Stereo ²	Default Mode³ - up to 1080p & stereo audio output
Off	On	Up to 720p/ 1080i	Stereo	Safe Mode⁴ - enforce output at 720p/1080i video and stereo audio for basic compatibility
On	Off	Bypass ⁵	Bypass ⁵	EDID learning⁶ mode - learning EDID from the display while playing any HDMI audio format
On	On	Bypass	Stereo	EDID learning⁶ & Stereo mode - learning EDID from the display while enforcing stereo output (if the HDTV cannot play surround sound normally)

Notes

- 1 Pin #1 and Pin #2 are for HDMI Input 1, while Pin #3 and Pin #4 are for HDMI Input 2.
- 2 If the HDTV shows video without audio, set the audio mode to stereo.
- 3 **Default Mode:** Factory default setting is Pin #1 - Off, Pin #2 - On, Pin #3 - Off, Pin #4 - Off for 1080p with stereo.
- 4 **Safe Mode:** If you encounter any unsolved audio/video output problem, please set the DIP switch to Pin #1 - Off, Pin #2 - On, Pin #3 - Off, Pin #4 - On, to force 720p & stereo output, please make sure to set your HDMI source(s) to 720p & stereo output for troubleshooting purpose.
- 5 **Bypass:** plays the HDMI signal in original video and audio format. At this mode you may encounter compatibility issues among different HDMI sources and displays. If you cannot get normal audio and/or video output, change the DIP switch setting to **Default Mode** or **Safe Mode** to verify the functionality of the device.
- 6 **EDID Learning and Stereo Mode:** to learn the EDID of your HDMI display, set Pin #1 or Pin #3 to **On** first, then connect the display to HDMI In 1 or HDMI In 2 respectively via HDMI cable, then power on the HDMI display and wait 20 seconds for the process to complete. If you want to learn the EDID of another display, you must set Pin #1 and/or Pin #3 to **Off** first, then repeat the process.

Hardware Installation

Broadcasts HDMI signals to 8 remote displays from either of 2 video sources

1. Switch off all devices, including monitors.
2. Connect HDMI sources (such as a Blu-ray Disc player) to the HDMI In(s).
3. Connect to the receivers (**CE-H20111-S1** or **CE-H20211-S1**) via CAT5e cable(s).
4. Connect the HDMI cable(s) from the receivers (**CE-H20111-S1** or **CE-H20211-S1**) to the HDMI monitors.
5. Plug in 5V 4A DC power supply.
6. Power on all devices.

Note:

1. If the HDMI device requires the EDID information, please use a EDID Reader/Writer (not included) to retrieve and provide the EDID information.
2. All HDMI over CAT5 transmission distances are measured using Belden CAT5e 125MHz LAN cable and ASTRODESIGN Video Signal Generator VG-859C.
3. The transmission length is largely affected by the type of LAN cables, the type of HDMI sources, and the type of HDMI displays. The testing result shows solid LAN cables (usually in bulk cable 300m/1000ft form) can transmit a lot longer distances than stranded LAN cables (usually in patch cord form). Shielded STP cables are better suit than unshielded UTP cables. A solid UTP CAT5e cable shows longer transmission length than stranded STP CAT6 cable. For long extension users, solid LAN cables are your only choice.
4. EIA/TIA-568-B termination (T568B) for LAN cables is recommended for better performance.
5. To reduce the interference among the unshielded twisted pairs of wires in the LAN cable, you can use shielded LAN cables to improve EMI problems.
6. Because the quality of the LAN cables has a major effect in the transmission distance, the actual transmission length is subject to your LAN cables. For resolution greater than 1080i or 1280x1024, a CAT6 cable is recommended.
7. If your HDMI display has multiple HDMI inputs, it is found that the first HDMI input (HDMI input #1) generally can produce better transmission performance among all HDMI inputs.

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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 analysts will promptly respond.

SIIG offers a 3-year manufacturer warranty with this product. 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 **RMA** to submit a request to [SIIG RMA](#). 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. 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

2x8 HDMI 1.3 CAT5e Distribution Amplifier

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.
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Fremont, CA 94538-3152, USA
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