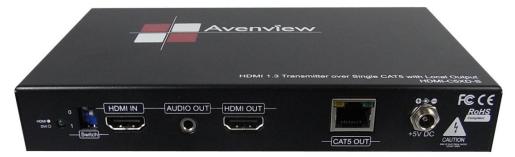


# HDMI 1.3 Extender / Repeater over Single CAT5 Cascading Series

SER GI



Model #: HDMI-C5XD-S



Model #: HDMI-C5XD-SR



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# **Section 1: Getting Started**

# 1.1 Important Safeguards

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - Any damage of the product due to shipment.
  - Removal or installation of the product.
  - Causes external to the product, such as electric power fluctuation or failure.
  - Use of supplies or parts not meeting our specifications.
  - Normal wear and tear.
  - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

# **1.2 Safety Instructions**

The Avenview HDMI-C5XD-S and HDMI-C5XD-SR HDMI 1.3 Transmitter / Repeater over CAT5 / CAT6 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the HDMI-C5XD-S, and HDMI-C5XD-SR should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Do not dismantle the housing or modify the module.
- Dismantling the housing or modifying the module may result in electrical shock or burn.
- Refer all servicing to qualified service personnel.
- Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Have the module checked by a qualified service engineer before using it again.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



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# **1.3 Regulatory Notices Federal Communications Commission (FCC)**

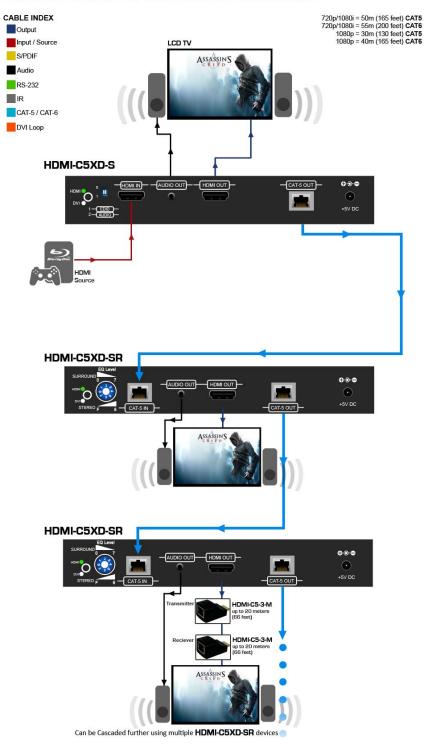
This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

# 1.4 Introduction

The Avenview HDMI 1.3 Extender / Repeater Series over Single CAT5 Distribution 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. The devices are cascadable, allowing you to extend HDMI or DVI compliant displays almost anywhere.

- Silicon Image chipset embedded for best quality, compatibility and reliability
- HDMI 1.3c compliant
- HDCP compliant
- Regenerates the HDMI signal
- Supports Audio Output
- Supports default HDMI EDID and has the ability to learn the EDID of the displays
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- Extends up to 15m (50ft) of input HDMI cable
- Extends up to 15m (50ft) of output HDMI cable
- Extends up to 60m (200ft) (720p / 1080i) of output CAT5/6 cable
- Extends up to 40m (130ft) (1080p) of output CAT5/6 cable
- Pure unaltered uncompressed 7.1ch digital HDMI over LAN cable transmission
- Allows cascading
- 1U rack mountable with interlocking power adapter for fixedness

# HDMI-C5XD-S & HDMI-C5XD-SR





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# 1.5 Package Contents

Before you start the installation of the converter, please check the package contents. **HDMI-C5XD-S** 

-	HDMI-C5XD-S	x 1
-	Power Adapter (+5VDC, 4A)	x 1
-	User's Manual	x 1

### HDMI-C5XD-SR

-	HDMI-C5XD-SR	x 1
-	Power Adapter (+5VDC, 4A)	x 1
-	User's Manual	x 1

# **1.6 Before Installation**

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.



# 1.7 Panel Description

## 1.7.1 HDMI-C5XD-S Rear Panel

	1 1.3 Transmitter over Single CATS with Local Output HDML-CSXD-5
<ol> <li>Input Signal format indicator (Bright: HDMI Single, Dim: DVI Signal)</li> </ol>	2. DIP Switch (details below)
3. HDMI IN: Connect HDMI source	4. Audio Out: Plug in Local Speaker
5. HDMI OUT: HDMI Local Output	<ol> <li>HDMI Signal Out: RJ45 connection to connect to HDMI-C5XD-SR or HDMI-C5-3-R</li> </ol>
7. Power Connector: 5V 4A DC	

## 1.7.2 Dip Switch for EDID & Audio Settings

<b>DIP Switch Position</b>		Video	Andio	Decerintian	
<b>PIN # 1</b>	PIN # 2	video	Audio	Description	
OFF 🕇	OFF 🕇	1080p	Stereo <sup>1</sup>	<b>Default Mode<sup>2</sup>:</b> Up to 1080p & Stereo output.	
OFF 🕇	ON 🖶	720p/1080i	Stereo	eo Safe Mode <sup>3</sup> : Forces system to output at 720p/1080i	
				with Stereo Audio.	
ON 🖶	OFF 🕇	Bypass <sup>4</sup>	Bypass	EDID Learning Mode <sup>5</sup> : for learning EDID from the	
				display while playing any received HDMI Audio format.	
ON 🖶	ON 🖊	Bypass	Stereo	EDID Learning & Stereo Mode: For learning EDID from	
				the display while enforcing stereo output.	

- 1 If the HDTV shows video but without audio, please try to set audio mode to stereo
- 2 Factory default: Pin#1-OFF[ **1**], Pin#2- OFF[ **1**] for 1080p with stereo.

3 If you encounter any unsolved audio/video output problem during system installation, please turn to Safe Mode (Pin#1-OFF[2] & Pin#2-ON[2]) to enforce the most compatible 720p stereo output for system check.

4 Bypass means the matrix will maintain playing the original format of HDMI signals in video and perhaps audio. By setting at this mode, the users may encounter compatibility issue among different kinds of HDMI sources and displays. If you cannot get the audio and/or video output normally at the system installation, please change the DIP switch setting to default mode or even safe mode to verify the functionality of the device.

5 Set Pin#1 at ON[2] first then connect the HDMI Input to HDTV through a HDMI cable. Wait for 20 seconds. The EDID learning procedure will be finished. If you want to learn the EDID from another HDTV, you must set Pin#1 at OFF first and repeat this procedure.



### 1.7.3 HDMI-C5XD-SR Rear Panel

<ol> <li>Input Signal format indicator (Bright: HDMI Single, Dim: DVI Signal)</li> </ol>	2. Rotary Switch
3. <b>RJ45 IN:</b> Connect RJ45 Source from HDMI-C5XD-S	4. Audio Out: Plug in Local Speaker
5. HDMI OUT: HDMI Local Output	<ol> <li>HDMI Signal Out: RJ45 connection to connect to HDMI-C5XD-SR or HDMI-C5-3-R</li> </ol>
7. Power Connector: 5V 4A DC	

### **1.7.4 HDMI Output Format Selection**

When input signal exists, the output format LED turns on. If the input HDMI source is HDMI 1.3 format, you can set the output format to HDMI 1.2 mode and Red LED will be on. If the input HDMI source is HDMI 1.2, the output format is always set to HDMI 1.2.





# **1.8 Installation (HDMI-C5XD-S)**

To setup Avenview HDMI-C5XD-S follow these steps for connecting to a device:

- 1. Turn off all devices including monitors / TV
- 2. Connect a Local HDMI display to the HDMI out of the HDMI-C5XD-S and then connect a speaker to the 3.5mm audio socket.
- 3. Connect to a HDMI source (such as a Blu-Ray Disc player)
- 4. Connect HDMI-C5XD-S to HDMI-C5XD-SR or HDMI-C5-3-R from RJ45 Out with CAT5 / CAT5 cable
- 5. Plug in 5V 4A DC Power (supplied).
- 6. Power on the HDMI display
- 7. Power on HDMI Sources.

# **1.9 Installation (HDMI-C5XD-SR)**

To setup Avenview HDMI-C5XD-SR follow these steps for connecting to a device:

- 1. Turn off all devices including monitors / TV
- 2. Connect a Local HDMI display to the HDMI out of the HDMI-C5XD-SR and then connect a speaker to the 3.5mm audio socket.
- 3. Connect to RJ45 cable to HDMI Signal IN which is connected to RJ45 OUT on HDMI-C5XD-S
- 4. Connect HDMI-C5XD-SR to another HDMI-C5XD-SR for cascading or HDMI-C5-3-R from RJ45 Out with CAT5 / CAT5 cable
- 5. Plug in 5V 4A DC Power (supplied).
- 6. Power on the HDMI display
- 7. Power on HDMI Sources.



# Section 2: Specifications

Item	Description				
Units	HDMI-C5XD-S	HDMI-C5XD-SR			
Unit Description	HDMI 1.3 Transmitter with Local Output	HDMI 1.3 Transceiver with Local Output			
HDMI Compliance	HDMI 1.3c				
HDCP Compliance	Yes				
Video Bandwidth	Single Link 225 MHz (6.75Gbps)				
Supported Resolutions	480i / 480p / 720p / 1080i / 1080p60				
Resolution and Distance	Full HD: (1080p) ~ 40meter (130feet) (CAT5e) / 50meter (165feet) (CAT6) HD: (720p/1080i) ~ 50meter (165feet) (CAT5e) / 60meter (200feet) (CAT6)				
Audio Support	Surround Sound (up to 7.1	Ch) or Stereo Digital Audio			
Equalization	-	8 Level Digital Control			
Input TMDS Signal	1.2 Volts (peak-to-peak)				
Input DDC Signal	5 Volts (peak	-to-peak, TTL)			
ESD Protection	<ul> <li>Human body model — ±15kV (air-gap discharge) &amp; ±8kV (contact discharge)</li> <li>Core chipset — ±8kV</li> </ul>				
Input	1 x HDMI	1 x RJ45			
	1 x HDMI	1 x HDMI			
Output	1 x Rj45	1 x RJ45			
	1 x 3.5mm Audio 1 x 3.5mm Audio				
HDMI Connector	Type A (19 pin female)				
RJ45 Connector	WE/SS 8P8C with 2 LED indicators				
Audio Connector	3.5mm				
DIP Switch	Yes	-			
Dimensions (L x W x H)	4.3" x 8.3" x 1.1"				
Power Supply	5V 4A DC				
Power Consumption	3 Watt (max)				
Environmental					
<b>Operating Temperature</b>	32° ~ 104°F (0° to 40°C)				
Storage Tempearture	-4° ~ 140°F (-20° ~ 60°C)				
Relative Humidity	20~90% RH (no condensation)				

# Notice

- 1. If the DVI or HDMI device requires the EDID information, please use EDID Reader/Writer to retrieve and provide DVI/HDMI EDID information.
- 2. All HDMI over CAT5 transmission distances are measured using Belden 1583A CAT5e 125MHz LAN cable and ASTRODESIGN Video Signal Generator VG-859C.3
- 3. The transmission length is largely affected by the type of LAN cables, the type of HDMI sources, and the type of HDMI display. The testing result shows solid LAN cables (usually in bulk cable 300m or 1000ft form) can transmit a lot longer signals 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 LAN cable, you can use shielded LAN cables to improve EMI problems, which is worsen in long transmission.
- 6. Because the quality of the LAN cables has the major effects in how long transmission distance will be made and how good is the received display, 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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