



Manual



04-1426A

# CE-H3EX01-S1

## HDMI Over Cat6 Extender-60m

User Manual



Thank you for choosing **SIIG** for your connectivity needs in IT and AV products. Our products are engineered for optimal performance and reliability. To ensure the best experience and safety, please read the instructions thoroughly and keep this user guide for future reference. For more details about our product range, visit [www.siig.com](http://www.siig.com)

If you require technical support, email us at [support@siig.com](mailto:support@siig.com)  
For drivers or manuals, please visit [www.siig.com/download](http://www.siig.com/download)



ESD CAUTION

## Important Safety Guidelines

This device has been rigorously tested and certified to meet international safety standards. However, as with all electronic equipment, it should be handled with care. To ensure your safety and to minimize the risk of damage, please follow these safety guidelines:

- Follow all provided instructions and warnings
- Ensure proper ventilation and avoid using near water
- Do not put any items into the device or attempt to modify its operation
- Do not use liquid or aerosol cleaners; avoid exposure to moisture ; Unplug the device before cleaning
- If there is any strange sound, smoke or odor, pull of the cable immediately
- Use the included power adapters only. Make sure the specification matches if using 3rd-party DC power adapters
- Shut off power and make sure environment is safe before installation

## Introduction

Easily to extend an HDMI signals up to 197ft over a single Cat6/7 cable and support full HD 1080p 60Hz resolution

## Key Features

- Extends HDMI signals to a remote display up to 197ft (60 meters) away over Cat6/7 network cable
- Delivers video content up to Full HD 1080p @60Hz
- Supports 3D and HDCP 1.4 compliant
- Power over cable (PoC) that allows 1 power supply connected to the transmitter (TX) to power the receiver (RX) over a cat cable
- Supports LPCM 2.0 audio
- Mountable metal housing design

## Package Contents

- 1 x HDMI Over Cat6 Extender- Transmitter (TX)
- 1 x HDMI Over Cat6 Extender- Receiver (RX)
- 1 x Power Adapters (DC 5V/1A)
- 1 x User Manual

## Setup Requirements

- HDMI source Devices: DVD, Media Players, or PC system
- HDMI displays: HDTVs, Monitors, or Projectors
- Network cables: Cat6/6a/7 network cables (not included)

## Layout

### Transmitter (TX)



Figure 1: Transmitter layout

No.	Connections	Descriptions
1	Power Indicator	On when powered on
2	HDMI Indicator	On when HDMI signal is detected from the source device
3	HDMI In	Connect to a source device with an HDMI cable (cable not included)
4	RJ45 Out	Connect to the receiver's RJ45 In with a CAT cable (cable not included)
5	DC 5V Power Jack	Connect the included power supply here

## Receiver (RX)

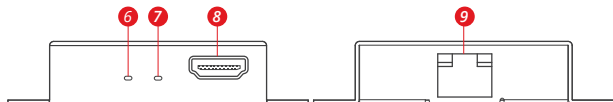


Figure 2: Receiver layout

No.	Connections	Descriptions
6	Power Indicator	On when powered on. The receiver will receive power over CAT cable via PoC (Power-over-Cable) from the transmitter
7	HDMI Indicator	On when HDMI display is connected to the HDMI output
8	HDMI Output	Connect to a display with an HDMI cable (cable not included)
9	RJ45 In	Connect to the transmitter's RJ45 Out with a CAT cable (cable not included)



## Specifications

Input Video Signal	0.5 - 1.0 Volts P-P
Input DDC Signal	5 volts p-p (TTL)
Support Video Format	DTV / HDTV: 720p / 1080i / 1080p 3D video
Video Output	HDMI
Support Audio Format	LPCM 2.0 48Khz
Transmission Distance	60m single CAT6/7 without signal loss
Operating Temperature Range	0 to +40°C (32 to + 104°F)
Operating Humidity Range	5 to 90% RH (No Condensation)
Power Consumption	2 watts (Maximum)
Dimension (L x H x D)	TX: 79.3mm x 16.5mm x 68mm RX: 79.3mm x 16.5mm x 68mm
Net Weight	232g (0.51 lbs)

Sink must support 3D video when sources is 3D device

## Hardware Installation

1. Power off all devices including your HDMI source device and HDMI display
2. Connect your HDMI source device to the transmitter's HDMI In with an HDMI cable (**cable not included**)
3. Connect a CAT6/7 cable between the transmitter and receiver
4. Connect an HDMI display to the receiver's HDMI Out with an HDMI cable (**cable not included**)
5. Plug in the included 5V power supply into the transmitter's power jack\*
6. Power on your HDMI source device and HDMI display. The Extender is ready for use\*\*

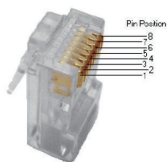
*\*Note: the receiver is automatically powered by the transmitter over the Cat6/7 cable*

*\*\*Note: Our Extender comes with a default 1080p EDID. When 1080i or 720p resolution is used, change the source device to this resolution first*

## Cat Cable Wiring

We suggest both RJ45 connectors be wired identically using T568B wiring standard for the best performance and compatibility

Both connections must be wired identically to the T568B standard



RJ45 Plug Colour Code (T568B)	
Contact Side - Tab is on Back	
8	BROWN
7	WHITE / BROWN
6	GREEN
5	WHITE / BLUE
4	BLUE
3	WHITE / GREEN
2	ORANGE
1	WHITE / ORANGE

### Note:

*You may use Cat6 / Cat7 wiring, however, for best performance Cat6 or Cat7 (particularly in electrically noisy environments) is recommended. The maximum transmission distance and video quality may be compromised by cable quality, patch cables, poor termination, wall plates, cable kinks, and electrical interference. We recommend using 100% copper 23AWG (avoid CCA type) Cat cable, in one straight run (avoid/minimize patches) and avoid close proximity to electrical sources.*



## Application Diagram

The HDMI Over Cat6 Extender is perfect for extending high-definition video up to 60m distances, making it ideal for various professional AV setups, including conference rooms, and home theater systems

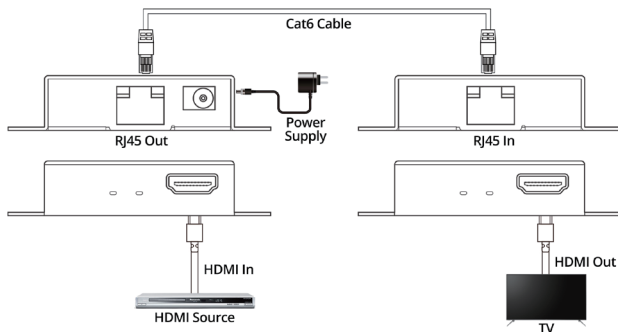


Figure 3: Application Diagram



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