

HDMI Over IP Encoder & Decoder Transceiver

<P/N: CE-H27P11-S1 >



Features

- Provides a total solution for display matrix, extender, splitter, switcher these functions can be implemented by the combination design of one unit of Encoder (TX) and Decoder (RX) depending on different configuration via slider switch
- Depends on different site scenario to configure as Encoder (TX) or Decoder (RX) and easy maintain the stock and spare unit
- Extend HDMI signal up to 180m (600ft) by single Cat.5/6 cable via One to One mode
- Support video resolution up to 1080p@60Hz
- Use conventional Ethernet L2 Switch for extension and distribution, and can be cascaded by the L2 Ethernet switches for longer distance
- Supports Stereo Audio over IP, independent to HDMI extension.
- Supports IR (20KHz~60KHz) extension over IP
- Built-in ESD protection system
- Supports EDID pass-through and Transmitter resolution pass-through, including most popular 16:9, 16:10, 4:3 resolution and timing

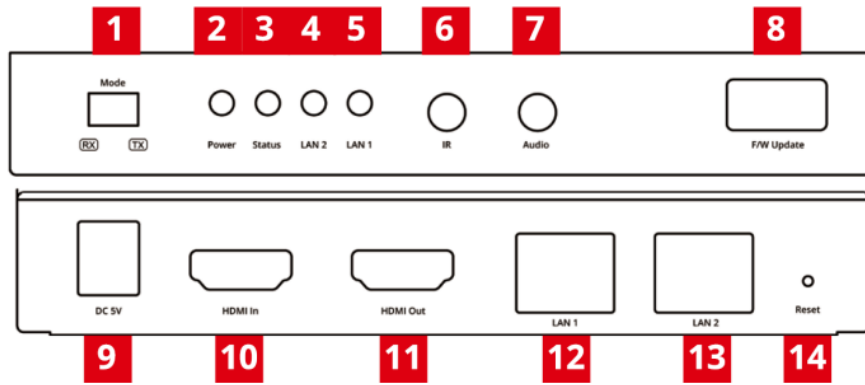
Package content

- HDMI Over IP Encoder & Decoder Transceiver
- Power adapter 5V/2A
- USB-A data cable
- IR Blaster & Receiver cable
- HDMI 3ft cable
- Quick Start Guide

Specifications

Encoder (TX) or Decoder (RX)unit	1x 19-pin HDMI, Input 1x 19-pin HDMI, Output 2x 8P8C RJ45, Video signal, Input / Output 1x 3.5mm for IR Input / Output 1x 3.5mm for Audio aux in 1x Reset Button, for default reset 1x Slider for Encoder (TX) / Decoder (RX) switch 1x 4-pin, USB for FW update 1x DC Power Jack
HDMI Specification	HDMI 1.4 & HDCP 1.4
Extensions Distance	180m (600 feet) for 1080p @60Hz
Ethernet port	10/100 Mbps
IR Frequency Range	20-60KHz
Interlaced Resolutions(50&60Hz)	1080i
Progressive Resolutions(50&60Hz)	1080p
VESA resolution (60Hz)	1920x1080 / 1680x1050 / 1600x1200 / 1920x1200 / 1440x900 / 1440x1050 / 1360x768 / 1280x1024 / 1280x960 / 1280x800 / 1280x768 / 1280x720 / 1024x768 / 800x600 / 640x480
Operating Temperature	0°C to 50°C
Storage Humidity	5% to 90% RH non-condensation
Power Supply	DC 5V
Dimension	5.20" (L) x 1.00" (H) x 3.08" (D)
Net Weight	0.63 lbs
Material	Metal

Product Layout



1.	Slider Switch	Switching between Encoder (TX) and Decoder (RX) mode.
2.	Power LED	Lights green when power on.
3.	Status LED	Lights green when HDMI input is transmitting data.
4.	LAN 2 LED	Flashing when LAN 2 port is transmitting data.
5.	LAN 1 LED	Flashing when LAN 1 port is transmitting data.
6.	IR	TX: Connect with IR blaster extension cable. Please get closer to the source device while using. RX: Connect with IR receiver extension cable. Please make sure the remote control used is within the effective range.
7.	Audio	TX Audio Embedded: Connect to 3.5mm audio source then it will cover RX HDMI output & RX 3.5mm audio extract. RX Audio Extract: It will follow RX HDMI output the same audio.
8.	F/W Update	For firmware update.
9.	Power Jack	DC 5V/2A
10.	HDMI Input	TX: Connect to HDMI source. RX: Disable.
11.	HDMI Output	TX/RX: Connect to HDMI display.
12.	LAN 1	TCP/IP 10/100Mbps Ethernet port 1. Connect to receiver with Cat5e/6 UTP cable.
13.	LAN 2	TCP/IP 10/100Mbps Ethernet port 2. Connect to receiver with Cat5e/6 UTP cable.
14.	Reset	Long press for 5 seconds to reset to factory default settings.

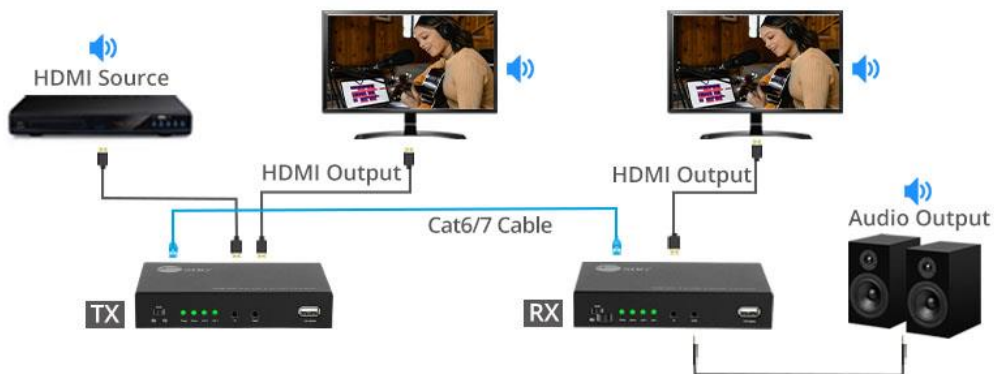
Application

Video Transmission



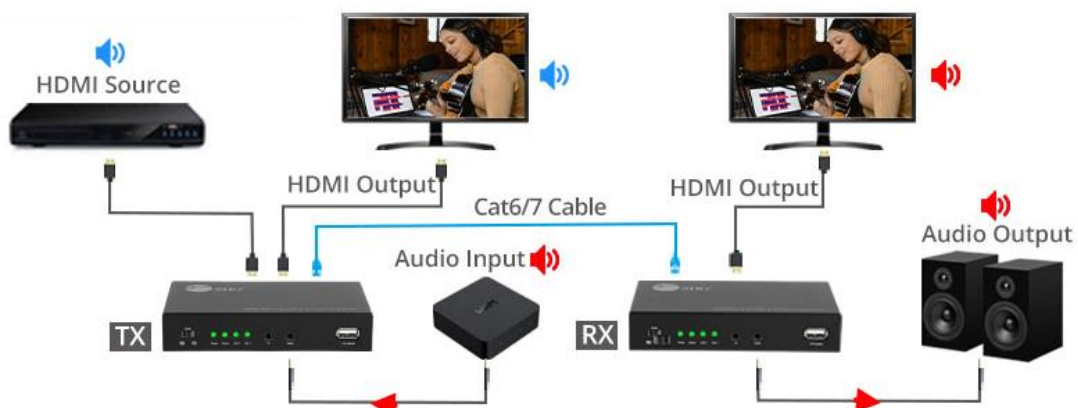
Audio Transmission 1

In single audio source scenario, audio can be output to bypass monitor via HDMI and Decoder's (RX) HDMI monitor via LAN



Audio Transmission 2

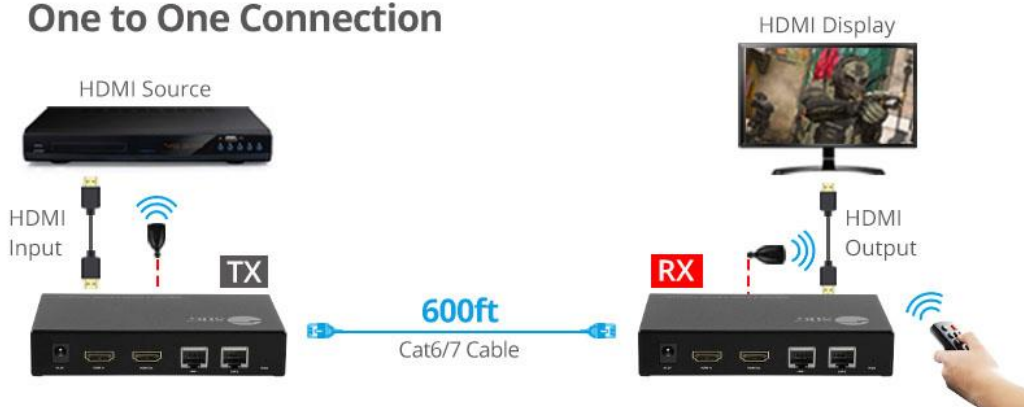
In multi audio source scenario, audio 1 (blue) can be output to bypass monitor via HDMI. Audio 2 (red) can be transmitted via audio port on Encoder (TX), and transferred to Decoder's (RX) HDMI output and audio output via LAN.



Connection Configuration:

Extender mode

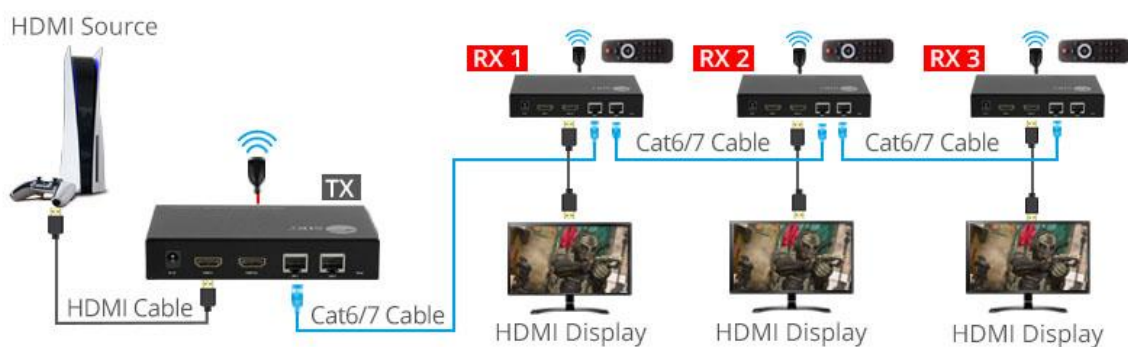
One to One Connection



1 to N Extender mode

Encoder (TX) can transmit data to Decoder 1 (RX 1) via LAN, Decoder 1 (RX 1) then can display and also transfer to Decoder 2 (RX 2) via LAN

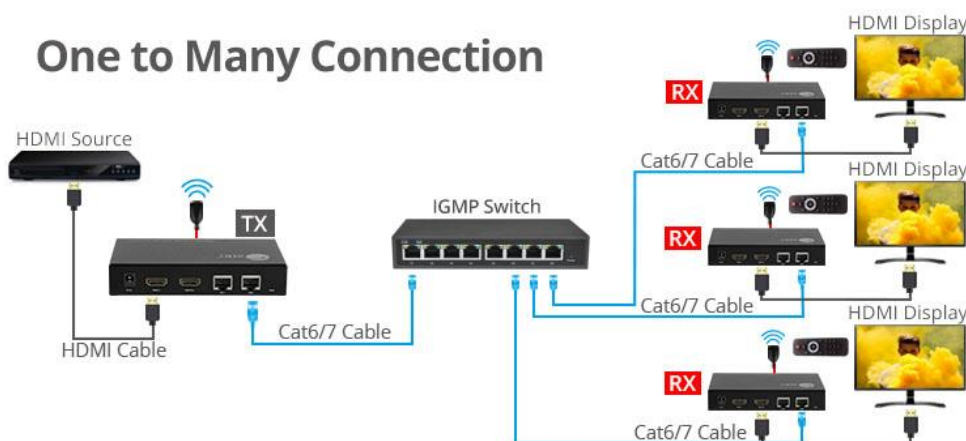
One to Many Connection



With network switch hub

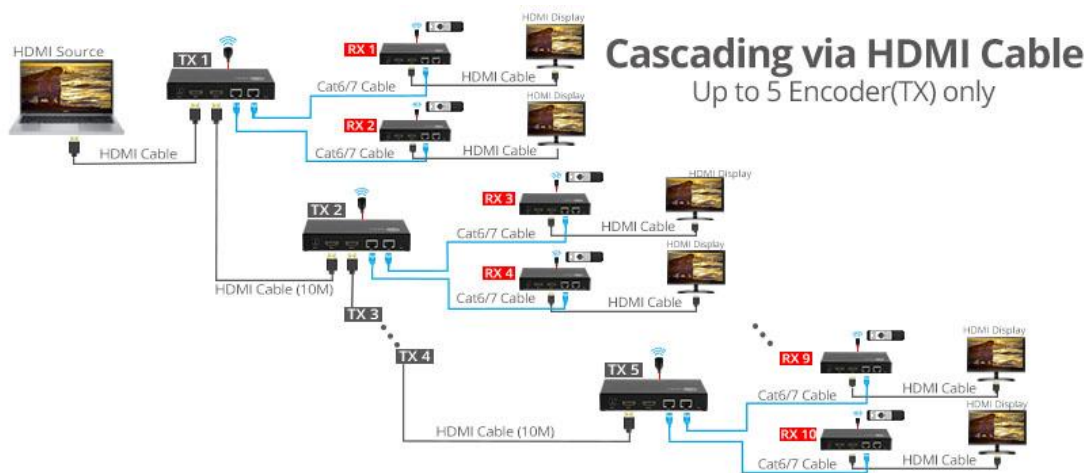
Encoder (TX) can be transmitted to multiple Decoder (RX)

One to Many Connection

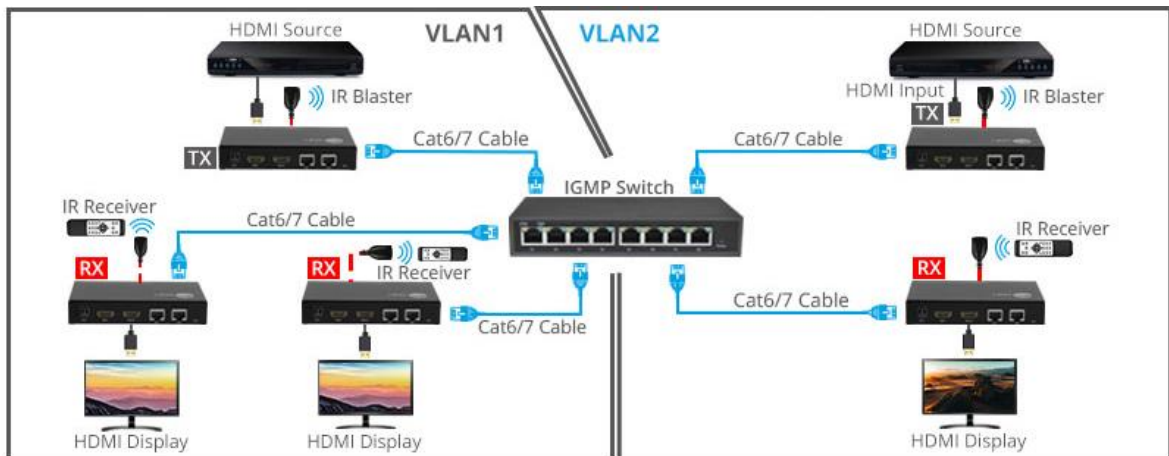


Cascading

HDMI source can be transmitted to multi-Encoder (TX) by loopback function. And each Encoder (TX) can be transmitted to 2 Decoder (RX) via LAN. Please note that this connection can link up to 5 Encoder (TX).



Many to Many Configurations Via VLAN Setup



IR Transmission

User can connect IR receiver to Decoder (RX) and IR transmitter to Encoder (TX) to use remote control function. In this case user can look at Decoder's (RX) monitor and use remote controller to control the HDMI source.

