Model   FS-HD2101E

Features

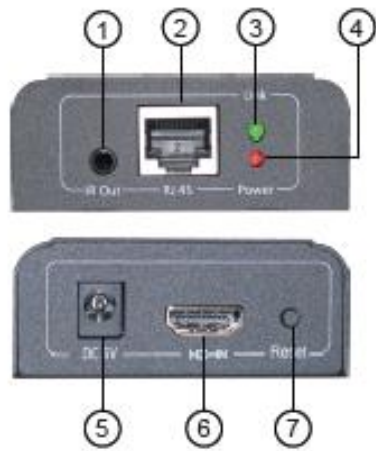**Transmit or receive HDMI signal over single standard Cat6/6a/7**

- FS-HD2101E consists of a transmitter unit and a receiver unit
- HD Video reaches up 60m (1080p@60Hz)
- Support IR pass-back with frequency of 38KHz
- Support HDMI 1.4a and HDCP1.2a
- LED Status to indicate HDMI Activity
- Support Audio format DTS-HD/Dolby TrueHD/PCM/ Dolby AC3/DSD
- Highest resolution up to 1080p@60Hz
- Power supply 5VDC/1A power adaptor included
- Easy and convenient to use, plug & play, no need to configure
- Metal housing for stable and durable working life
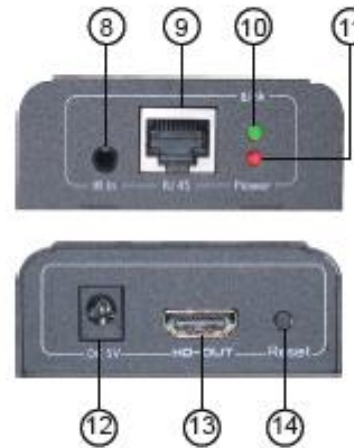
Overview

The FS-HD2101E is a HDMI extender which adopts new HDMI extending technology. The product consists of a transmitter unit and a receiver unit and should be used in pairs. With the application of this HDMI extender, HDMI signal could be extended up to 60m over single cost effective Cat6/6a/7 or cable at higher standard. Transmission distance up to 60m is a perfect solution for family application as well as CCTV monitoring. The FS-HD2101E extender is complete solution to solve the image mosaic, color distortion, transmission failure and other problems when long distance HDMI signal is transmitted. It can support EQ setting-automatically search best transmitting resolution HDMI signals, and support infrared pass-back function, etc. The product is widely applied to situations such as Home Theater, Exhibition, Multi-media classroom, etc.

Panel View

① IR out
② RJ45
③ Green light
④ Red light
⑤ Power
⑥ HDMI input
⑦ Reset button

⑧ IR in
⑨ RJ45
⑩ Green light
⑪ Red light
⑫ Power
⑬ HDMI out
⑭ Reset button

Transmitter

Receiver

IR Pass-back Function

Step1: Insert one end of infrared receiving line into "**IR IN**" of FS-HD2101E-RX and aim the other end at IR Remote Controller;

Step2: Insert one end of infrared emission line into "**IR OUT** "of FS-HD2101E-TX and aim the other end at the corresponding infrared receiving part of video source such as DVR player.

IR remote control function starts after above proper operation.

Quick Setup Guide

Step1: Begin with all input/output devices turned off with power cables removed

Step2:Use a HDMI cable; connect the male end to video source, the female end to "HDMI IN" of FS-HD2101E-TX.

Use an Cat6/6a/7 cable; connect one end to RJ 45 connector of FS-HD2101E-TX, the other end to RJ 45 connector of FS-HD2101E-RX.

Step3: Use another HDMI cable; connect the male end to "HDMI OUT" of FS-HD2101E-RX, the other end to display device.
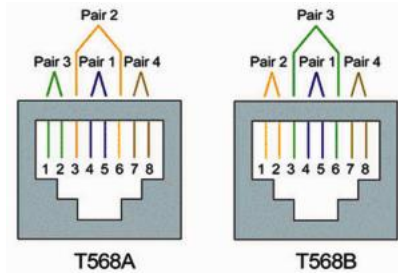
Step4: Make sure the connections mentioned above are finished properly. Then connect FS-HD2101E-TX and FS-HD2101E-RX to DC+5V power supply.

When the red power LED indicator turns on and display device works with good image, then whole connection is done successfully.

Caution:

1. The wiring must be away from any equipment with electromagnetic wave such as mobile phone, microwave, radio equipment,fluorescent lamp, power lines, etc.

2. This device is not network equipment, do not connect with network to avoid damage.

RJ 45 Define

	1	2	3	4	5	6	7	8
T568A	White Green	Green	White Orange	Blue	White Blue	Orange	White Brown	Brown
T568B	White Orange	Orange	White Green	Blue	White Blue	Green	White Brown	Brown

How to make a network cable

To create a network cable, you will first need the equipment listed below.

1. Cat5e, Cat6, or Cat7 cable

2. RJ-45 connectors

3. Crimping tool

4. Wire stripper or Knife

The wire sequence of RJ45 connector must comply with international standard of EIA/TIA 568A or EIA/TIA 568B.

1) We recommend stripping at least a half of an inch off of the cable to expose the inner wires.

2) Separate the wires within the cable after the network cable jacket has been removed so that they can be put into the RJ-45 connector.

3) The CAT5 twisted-pair cable consist of four twisted wires, each color coded; 8 wires must be correctly lined as the standards of EIA/TIA 568A or EIA/TIA 568B.

4) Cut thread residue and leave 1.5cm wire exposed outside the insulating layer and ensure 8 wires are straighten and neat.

5) Place the cable into the RJ-45 connector and then use the crimping tool to attach the connector.

6) Repeat above steps for the other end of the cable; the wire sequence of both ends of the cable is suggested to be identical.

7) Make sure to test the cables before installing them once both ends of the cable have been completed.

Technical Specifications

Product Name	HDMI Extender
Model	FS-HD2101E
Version	HDMI1.4a HDCP1.2a
Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@60Hz
Max Transmission	Transmission distance max up to 60m over Cat6 or above
IR Remote Control	Support 38KHz carrier IR passback control
EQ control	Touch EQ button softly, auto-matching the optimum resolution
Power Adapter	DC5V/1A
Power Consumption	TX:≤3W RX:≤3W
Red Indicator	DC+5V power indicator
Green Indicator	Data signal indicator
ESD Protection	Contact Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2
Temperature	0℃ ～ 55℃
Humidity	0～95℃
Dimension	83X62X27mm
Housing	Zink Alloy

Application

- Home Theater system
- Venue display system
- Media classroom system
- LCD and plasma flat panel multimedia advertising project
- Big screen LED curtain wall display project
- The large projection equipment display system
- The industrial automation and control system
- Audio/Video meeting system
- Security monitoring system
- Multimedia network education system
- Long-distance network server monitoring
- Central control system
- Military exercises command system

Application Diagram