Managed HDMI Extender

CE FC RoHS

Model: FS-HD2100E

Transmit or receive HDMI signal over single standard Cat5e/6

- FS-HD2100E consists of a transmitter unit and a receiver unit
- HD Video reaches 50m(1080p@60Hz)
- Support HDMI 1.3 and HDCP1.2
- LED Status to indicate HDMI Activity
- Support Audio format DTS-HD/Dolby True HD/PCM/ Dolby AC3/DSD
- 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-HD2100E 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 50m over single cost-effective Cat5e/6 or above at higher standard. Transmission distance up to 50m is a perfect solution for family application as well as CCTV monitoring.

The FS-HD2100E extender is also a complete solution to solve the image mosaic, color distortion, transmission failure and other problems when long distance HDMI signal is transmitted. The product is widely applied to situations such as Home Theater, Exhibition, Multi-media classroom, etc.

Quick Setup Guide:

Step 1: Begin with all input/output devices turned off and power cables are removed.

Step 2: Use a HDMI cable: connect the male end to video source, the female end to "HDMI IN" of FS-HD2100E-TX.
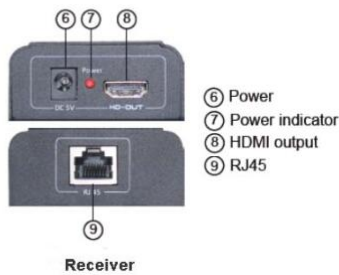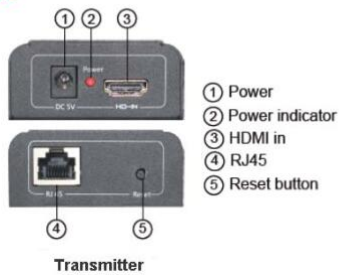
   Use a Cat5e/6 cable: connect one end to RJ 45 connector of FS-HD2100E-TX, the other end to RJ 45 connector of FS-HD2100E-RX.

Step 3: Use another HDMI cable: connect the male end to "HDMI OUT" of FS-HD2100E-RX, the other end to display device.

Step 4: Make sure the connections mentioned above are properly finished. Then connect FS-HD2100E-TX and FS-HD2100E-RX to DC+5V power supply.
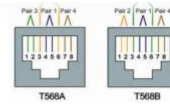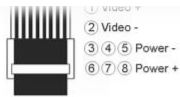
When the red power LED indicator turns on and display device works with good image, then the whole connection is done successfully.

Panel View

① Power
② Power indicator
③ HDMI in
④ RJ45
⑤ Reset button

Transmitter

⑥ Power
⑦ Power indicator
⑧ HDMI output
⑨ RJ45

Receiver

② Video -
③ ④ ⑤ Power -
⑥ ⑦ ⑧ Power +

T568A   T568B

EIA/TIA-568A Wiring Specifications

Wire	Pin #	Configuration
Green White	1	Video (+)
Green	2	Video (-)
Orange White	3	Power (-)
Blue	4	Power (-)
Blue White	5	Power (-)
Orange	6	Power (+)
Brown White	7	Power (+)
Brown	8	Power (+)

EIA/TIA -568B Wiring Specifications

Wire	Pin #	Configuration
Orange White	1	Video (+)
Orange	2	Video (-)
Green White	3	Power (-)
Blue	4	Power (-)
Blue White	5	Power (-)
Green	6	Power (+)
Brown White	7	Power (+)
Brown	8	Power (+)

Technical Specifications

Product Name	HDMI Extender
Model	FS-HD2100E
Version	HDMI1.3 HDCP1.2
Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@60Hz
Max Transmission	Transmission distance max up to 50m over Cat5e/6 or above
Power Adapter	DC5V/1A
Power Consumption	TX: ≤3W RX: ≤3W
Red Indicator	DC+5V power indicator
Green Indicator	Data signal indicator
ESD Protection	Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2
Operating Temperature	0℃ ~ 60℃
Humidity	0 ~ 95℃
Dimension	83X62X27mm

Applications

• Home Theater system

• Venue display system

• Medical Monitoring Display 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

FS-HD2100E-TX

HDMI-IN   CAT 5E

FS-HD2100E-RX

HDMI-OUT

DVD

HDMI-Display

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