

Managed HDMI Extender

Overview | Parameters | Technical Specifications | Applications









Model: FS-HD2102E

Transmit or receive HDMI signal over single standard Cat5e/6

- FS-HD2102E consists of a transmitter unit and a receiver unit
- HD Video reaches 150m(1080p@60Hz)
- Support IR pass-back with frequency of 38KHz
- 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
- Highest resolution up to 1080p@60Hz
- HD Video over IP transmission solution, max bandwidth <80Mbps
- 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-HD2102E 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 150m over single cost-effective Cat5e/6 or above cable at higher standard. Transmission distance up to 150m is a perfect solution for family application as well as CCTV monitoring.

The FS-HD2102E extender is a complete solution to solve the image mosaic, color distortion, transmission failure and other problems when long distance HDMI signal is transmitted. It supports EQ settingautomatically to search the 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 and State (Section 2018) and State (Sclassroom, etc.

IR Pass-back Function

Step1: Insert one end of infrared receiving component into "IR IN" of FS-HD2102E-RX and the other end at IR Remote Controller;

Step2: Insert one end of infrared emission component into "IR OUT "of FS-HD2102E-TX and the other end at the corresponding infrared

receiving component of video source such as DVR player.

Step 3: IR remote control function starts after above proper operations are ok.

Ouick Setup Guide

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

Step2: Use a HDMI cable: connect the male end to video source, the female end to "HDMI IN" of FS-HD2102E-TX.

Use a Cat5e/6 cable: connect one end to RJ 45 connector of FS-HD2102E-TX, the other end to RJ 45 connector of FS-HD2102E-RX.

Step3: Use another HDMI cable: connect the male end to "HDMI OUT" of FS-HD2102E-RX, the other end to display device.

Step 4: Make sure the connections mentioned above are finished properly. Then connect FS-HD2102E-TX and FS-HD2102E-RX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-RX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-RX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX to DC+5V power supply. The connect FS-HD2102E-TX and FS-HD2102E-TX a

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



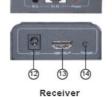
Managed HDMI Extender

Overview | Parameters | Technical Specifications | Applications



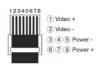
Transmitter

- (3) Green light
- 4 Red light
- S Power
- 6 HDMI input 7 Reset button



- 11 Red light
- ① Power ① HDMI out (14) Reset button

RJ 45 Define









EIA/TIA-568A Wiring Specifications

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

EIA/TIA -568B Wiring Specifications

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

Technical Specifications

Product Name HDMI Extender Model F5-HD2102E Version HDMI1.3 HDCP1.2 Resolution 480(@60Hz, 480)@60Hz, 576(@50Hz, 576(@50Hz, 720)@50/60Hz, 1080(@50/50Hz, 1080)@60Hz Max Transmission Transmission distance max up to 150m over Cxt5x/6 or above IR Remote Control Support 38K carrier iR control EQ control Touch EQ button softly, auto-matching the optimum resolution Power Adapter DCSV/IA Power Consumption TX: s3W RX: s3W Red Indicator DC+5V power indicator Green indicator Data signal indicator ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: EC61000-4-2 Temperature O'C ~ 55°C Humidity O ~ 95°C Dimension 108.3X68X27mm Housing Zink Alloy				
Version HDMI1.3 HDCP1.2 Resolution 480i@60Hz, 480i@60Hz, 576i@50Hz, 720i@50/60Hz, 1080i@50/60Hz, 1080i@60Hz Max Transmission Transmission distance max up to 150m over Cat5e/6 or above IR Remote Control Support 38K carrier IR 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 Electronics Touch Discharge: ±2kV Air Discharge: ±4kV Standard: EC61000-4-2 Temperature 0°C ~ 55°C Humidity 0 ~ 95°C Dimension 108.3X68X27mm	Product Name	HDMI Extender		
Resolution 480(@60Hz, 480)@60Hz, 576(@50Hz, 576(@50Hz, 576)@50/60Hz, 1080(@50/60Hz, 1080)@60Hz Max Transmission Transmission distance max up to 150m over CatSe/6 or above IR Remote Control Support 38K carrier IR control EQ control Touch EQ button softly, auto-matching the optimum resolution Power Adapter DCSV/1A Power Consumption TX: 53W RX: 53W Red Indicator Dc+5V power indicator Green Indicator Data signal indicator ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2 Temperature 0°C ~ 55°C Humidity 0 ~ 95°C Dimension 108.3X68X27mm	Model	FS-HD2102E		
Max Transmission IR Remote Control EQ control Touch EQ button softly, auto-matching the optimum resolution Power Adapter DCSV/1A Power Consumption Red Indicator Green Indicator ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2 Temperature D'C ~ 55°C Humidity Dimension Transmission distance max up to 150m over Cat5e/6 or above Support 38K carrier IR control Support 38K carrier IR control Touch EQ button softly, auto-matching the optimum resolution Touch EQ button softly, auto-matching the optimum resolution TX: ≤3W RX: ≤3W Do C5V/1A Do C5V/1A Do C5V/1A Diver Adapter DCSV/1A Do C5V/1A Do C5V/1A Diver Adapter DCSV/1A Do C5V/1A Do C5V/1A Diver Adapter DCSV/1A Do C5V/1A Diver Adapter DCSV/1A Do C5V/1A Diver Adapter DCSV/1A Do C5V/1A Diver Adapter DCSV/1A Do C5V/1A Diver Adapter DCSV/1A Diver Adapter DCSV/1A Do C5V/1A Diver Adapter DCSV/1A DCSV/	Version	HDMI1.3 HDCP1.2		
IR Remote Control EQ control Touch EQ button softly, auto-matching the optimum resolution Power Adapter DCSV/1A Power Consumption Red Indicator Green Indicator Green Indicator ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2 Temperature O°C ~ 55°C Humidity Dimension Support 38K carrier IR control Touch EQ button softly, auto-matching the optimum resolution DCSV/1A DCSV/1A DCSV/1A DC5V/1A DC5V/1A	Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@60Hz		
EQ control Power Adapter DC5V/1A Power Consumption TX: \$\text{SW} \ RX: \$\text{SW}\$ Red Indicator Green Indicator Data signal indicator ESD Protection Electronics Touch Discharge: \$\text{2KV} \ Air Discharge: \text{4KV} \ Standard: IEC61000-4-2} Temperature 0°C \times 55°C Humidity 0 \times 95°C Dimension	Max Transmission	Transmission distance max up to 150m 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 Temperature D"C ~ 55°C Humidity Dimension 108.3X68X27mm	IR Remote Control	Support 38K carrier IR control		
Power Consumption Red Indicator DC+5V power indicator Green Indicator Data signal Indicator ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2 Temperature 0°C ~ 55°C Humidity 0 ~ 95°C Dimension 108.3X68X27mm	EQ control	Touch EQ button softly, auto-matching the optimum resolution		
Red Indicator Green Indicator Data signal indicator ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2 Temperature 0°C ~ 55°C Humidity 0 ~ 95°C Dimension 108.3X68X27mm	Power Adapter	DC5V/1A		
Green Indicator ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2 Temperature 0°C ~ 55°C Humidity 0 ~ 95°C Dimension 108.3X68X27mm	Power Consumption	TX: S3W RX: S3W		
ESD Protection Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2 Temperature 0°C ~ 55°C Humidity 0 ~ 95°C Dimension 108.3X68X27mm	Red Indicator	DC+5V power indicator		
Temperature 0°C ~ 55°C Humidity 0 ~ 95°C Dimension 108.3X68X27mm	Green Indicator	Data signal indicator		
Humidity 0~95°C Dimension 108.3X68X27mm	ESD Protection	Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2		
Dimension 108.3X68X27mm	Temperature	0°C ~ 55°C		
	Humidity	0 ~ 95°C		
Housing Zink Alloy	Dimension	108.3X68X27mm		
	Housing	Zink Alloy		



Managed HDMI Extender

Overview | Parameters | Technical Specifications | Applications

- Venue display system
- Medical Monitoring Display System
- LCD and plasma flat panel multimedia advertising project
- Big screen LED curtain wall display project
- \bullet 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



NEWSLETTER SIGN UP

Your email address

₹ FOLKS∆FE [®]	ABOUT US	PRODUCT CENTER	SOLUTION	NEWS
No. 615, 6F, Bldg B2, Furtune Plaza, Futian Bonded Zone, Futian District, Shenzhen, China.	About Us	PoE Switch	Industries	Company news
	Business Philosophy	HD Hybrid Video Balun	Products	Industry News
+ 86 755 27189622	Company Milestones	IT Transmission	White Papers	Exhibitions
+ 86 755 27189522	Certificates & Patents	Surge Protector	Where to Buy	Video Center
info@folksafe.com	Excellent Teams	Accessories		
www.folksafe.com	Company Culture			

Copyright © 2019 Shenzhen Folksafe Technology Co., Ltd. All Rights Reserved | Designed by Joymagic







