

**MUX-FHD**

# Datasheet

**DOC V1.0**  
**PCB V0.2**

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### MUX-FHD brief

MUX-FHD is a 4 HDMI input and 2 HDMI output video switch. It has 4 HDMI1.3 input ports with remote selectable, there is an advanced HDMI 1.3 receiver, and accept any mode of HDMI source up to 1080P, and remote controllable output signal type ( HDMI YCbCr 444, HDMI YCbCr 422, HDMI RGB 444, DVI-RGB) to let you connect DVI monitor or projector, that will be cleanest digital path from video source to your display. Additional Toslink/SPDIF output to let you connect AV receiver to get up to 7.1CH sound. The MUX-FHD is an ideal product can let you connect up 4 HDMI video sources to your digital display

### FEATURES

#### ■ HDMI input path

- 4 port HDMI input
- HDMI 1.1, 1.2, 1.3a, 1.3b, 1.4, HDCP 1.1, 1.3, and DVI 1.0 compliant
- DTV mode support (480P,576P,720P,1080i,1080P) for 50 and 60Hz
- PC mode support (VGA, SVGA, XGA, SXGA, UXGA) up to 165MHz
- Support 4:4:4 RGB / YCbCr input
- Support 4:2:2 YCbCr input
- Support both 16-235 and 0-255 color range

#### ■ HDMI output port

- Two HDMI output with user selectable output mode include HDMI-RGB, HDMI-YCbCr444, HDMI-YCbCr422, DVI-RGB, bypass mode
- Audio embedded with HDMI-RGB, HDMI-YCbCr444, HDMI-YCbCr422, bypass mode
- Two audio out Toslink port support 2CH PCM or 7.1CH compressed audio
- one audio out SPDIF port support 2CH PCM or 7.1CH compressed audio
- Drive up to 20M cable

#### ■ Board and BOX

- Metal box have cleanest electrical environment for high definition content processing
- Manual select input port
- IR control select input source
- Global power supply 100V-240V

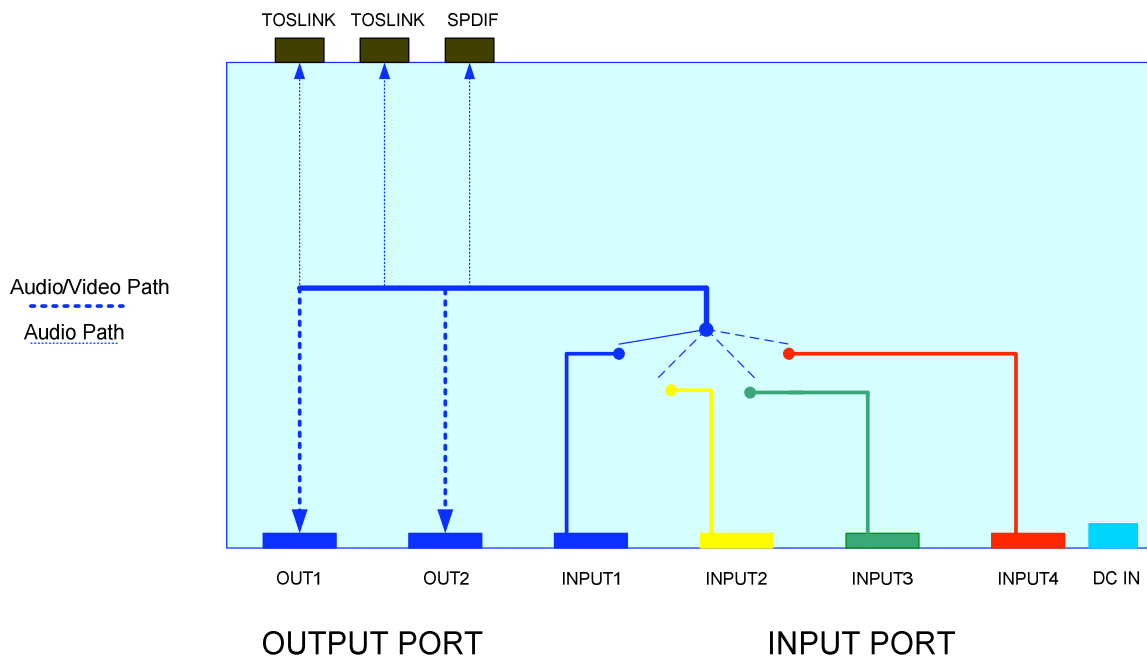
#### ■ HDMI support mode table

PC mode	640X480	60HZ 72HZ 75HZ 85HZ
	800X600	56HZ 60HZ 72HZ 75HZ 85HZ
	1024X768	43HZ 60HZ 70HZ 75HZ 85HZ
	1152X864	60HZ 70HZ 75HZ 85HZ
	1280X1024	43HZ 60HZ 75HZ 85HZ
	1600X1200	48HZ 60HZ
	1440X960	43HZ 60HZ 72HZ
HDTV mode	480P	60HZ
	576P	50HZ
	720P	50HZ 59HZ 60Hz
	1080I	29HZ 30HZ 50HZ 59HZ 60HZ 96HZ

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	1080P	50HZ 59HZ 60Hz 24HZ
	1035I	30HZ

### Box overview



### HDMI input ports:

Connect HDMI cable to video source

### TOSLINK:

Optical digital sound output

### SPDIF:

SPDIF digital sound output

### DC connector:

Connect to AC adaptor for 6V DC

### IR control:

IR control can let you switch between input sources. And select output

### mode

#### IR controller key button:

Key name	function	note
1	input select HDMI0	
2	input select HDMI1	
3	input select HDMI2	
4	input select HDMI3	
DISPLAY	Reserved for Deep color	Change between 8/10/12bit for each color only work when SW1 deep color turn on
A	HDMI-RGB output mode	Mode A
B	HDMI-YCbCr 444 output mode	Mode B
C	HDMI-YCbCr 422 output mode	Mode C
D	DVI-RGB output mode	Audio will only output from TOSLINK and SPDIF
MODE	Bypass mode	Bypass mode

#### HDMI Audio Support Table

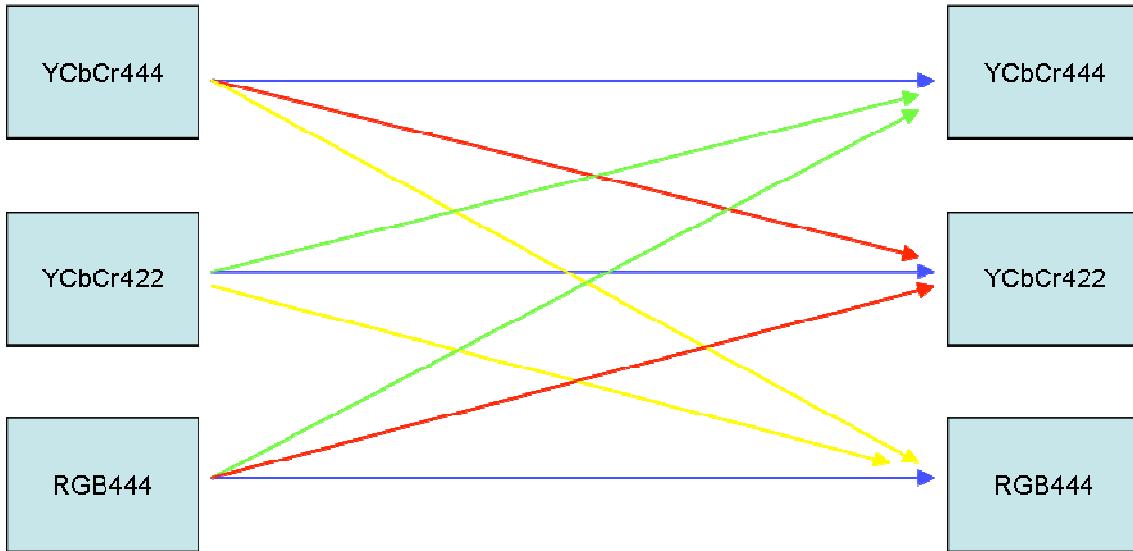
No	Audio Type	Support
1	Dolby Digital	Yes
2	DTS	Yes
3	2CH PCM	Yes
4	Down mixed PCM	Yes

※ When no sound, press remote “reset” key to recover

※ **If your display only supports 2CH PCM, you need set DVD/Blu-ray player/Set Top Box audio output format as down-mixed or PCM. MUX-FHD has no down-mix function**

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## HDMI Video Support:



- Mode A
- Mode C
- Mode B
- Bypass mode

## SW1 Setting

