

IFB-HD

Datasheet

V 1.0

PRELIMINARY, SUBJECT TO CHANGE WITHOUT NOTICE

IFB-HD brief

IFB-HD is highly integrated board for SONY VPH series CRT projector and PC1270/1 switcher. It has two input port, one is advanced HDMI connector, and another is analog component input. Input auto-selection is useful when projector is mounted on ceiling. Optional Gamma circuit create real nature image for your projector. The IFB-HD is ideal product for CRT projector connect feature digital and analog HD source.

FEATURES

■ HDMI input path

- HDMI 1.1, 1.2ready ,HDCP 1.1, 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
- High precision 200MHz 10bit DAC
- High speed 500MHz output Buffer

■ Analog component input path

- BT601/709 color space transform support
- Auto mode detect for correct color space
- Support HDTV mode 480P 720P 1080I
- High speed 500MHz output Buffer

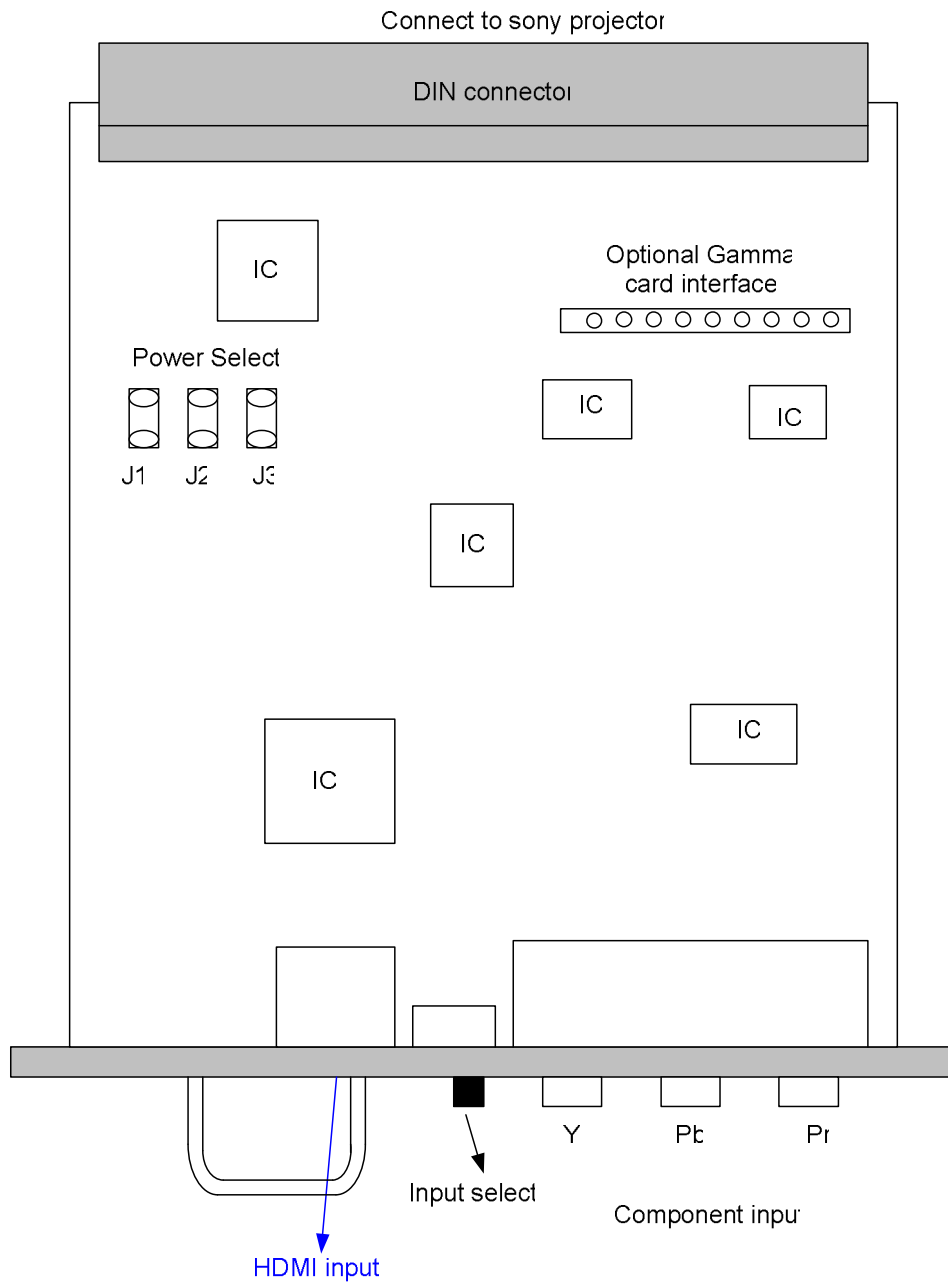
■ Board

- Auto input source detect and auto-select function with priority setting
- Selectable power source for SONY projector / switcher
- Optional gamma circuit interface
- Low power consumption when disabled

■ 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
HDTV mode	480P	60HZ
	576P	50HZ
	720P	50HZ 59HZ 60Hz
	1080I	29HZ 30HZ 50HZ 59HZ 60HZ
	1080P	50HZ 59HZ 60Hz
	1035I	30HZ

Board overview



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HDMI input port:

Connect HDMI cable to video source

Component port:

Connect video source by RCA cable

Input Select:

Select input source priority

Power select:

J1: for SONY VPH-D50, VPH-G70, VPH-G90

J2: for SONY VPH-1251 1252 1270 1271 1272 1292 (from +15V), and switcher PC1270/1271

J3: for SONY VPH-1251 1252 1270 1271 1272 1292 (from standby +5V)

Optional Gamma circuit interface:

If gamma circuit is not existed, there will be three jumper needed. Jumper setting is below:

