

# NEC STv2 3G HDSDI Interface

ORDER CODE: 100012947

NEC Slot-In HDSDI STv2

Fully integrated HDSDI interface for all NEC public displays and projectors with STv2 or public displays with NEC dual slot in combination with dual slot adapter.

The solution is optimized for NEC displays and projectors to deliver the best possible image quality.



## DELIVERING GENUINE BENEFITS

- Fully Digital Operation
- Serial Digital Video Input up to 2.970 Gbits/sec
- Equalized and Reclocked SDI Loop-thru Output
- DVI HD output resolution matches SDI input
- Up to 12 bit colour support
- Audio Extraction

## TECHNICAL SPECIFICATIONS

<b>SDI Video Input</b> SMPTE 259M 270Mb/s SMPTE 292M 1485Mb/s SMPTE424M 2970 Mb/s	1x BNC Connector
<b>Input Audio Signal</b> SD-SDI 3G / HD-SDI	SMTPE 272M SMTPE 299M
<b>SDI Video Output</b> Active Looping Signal	1x BNC Connector Equalized & Reclocked
<b>DVI-D Video</b>	DVI-D HD output resolution matches SDI input, 1440x480i Double Clock for 720x480i/ 1440x576i Double Clock for 720x576i
<b>Audio Extraction Format</b> Number of Channels Sample Rate	SDI or HD-SDI 1 stereo channel SD: 48kHz, HD: 48kHz, 44.1kHz, 32kHz
<b>Stereo Audio Output</b> Bandwidth Output Level	20kHz 1VRMS max. into 22k ohms
<b>Dimensions [mm]</b>	200 x 145 x 30
<b>Weight [kg]</b>	0,34
<b>Operating Temperature [°C]</b>	5 to +40
<b>Operating Humidity [%]</b>	20 to 80, Non-condensing
<b>Storage Temperature [°C]</b>	-10 to +50
<b>Storage Humidity [%]</b>	20 to 80, Non-condensing
<b>Power Consumption [W]</b>	4.8
<b>Warranty</b>	36 months
<b>Compatible with</b>	All displays with STv2 slot or DualSlot in combination with Dual Slot STv2 adapter All NEC projectors with STv2 slot
<b>Regulatory Approvals</b>	CE, FCC Class B, DOC Class B

# NEC STv2 3G HSDSI Interface

## PROJECTOR / MONITOR INTERFACE

### DVI OUTPUT MODES

SDI INPUT		DVI Output Mode			
		RESOLUTION	fV(Hz)	Scan	Dot Clock (MHz)
SD-SDI	480i59.94	1440 x 480	59.94	Interlace	27
	576i50	1440 x 576	50	Interlace	27
HD-SDI	1035i60/59.94	1920 x 1035	60 / 59.94	Interlace	74.25 / 74.18
	1080i60/59.94	1920 x 1080	60 / 59.94	Interlace	74.25 / 74.18
	1080i50	1920 x 1080	50	Interlace	74.25
	1080PsF24/23.98	1920 x 1080	24 / 23.98	PsF	74.25 / 74.18
	1080p30/29.97	1920 x 1080	30 / 29.97	Progressive	74.25 / 74.18
	1080p25	1920 x 1080	25	Progressive	74.25
	1080p24/23.98	1920 x 1080	24 / 23.98	Progressive	74.25 / 74.18
	720p60/59.94	1280 x 720	60 / 59.94	Progressive	74.25 / 74.18
	720p50	1280 x 720	50	Progressive	74.25
	720p30/29.97	1280 x 720	30 / 29.97	Progressive	74.25 / 74.18
	720p25	1280 x 720	25	Progressive	74.25
	720p24/23.98	1280 x 720	24 / 23.98	Progressive	74.25 / 74.18
3G-SDI	1080p60/59.94	1920 x 1080	60 / 59.94	Progressive	148.5 / 148.35
	1080p50	1920 x 1080	50	Progressive	148.5
	1080i60/59.94	1920 x 1080	60 / 59.94	Interlace	74.25 / 74.18
	1080i50	1920 x 1080	50	Interlace	74.25
	1080PsF24/23.98	1920 x 1080	24 / 23.98	PsF	74.25 / 74.18
	1080p30/29.97	1920 x 1080	30 / 29.97	Progressive	74.25 / 74.18
	1080p25	1920 x 1080	25	Progressive	74.25
	1080p24/23.98	1920 x 1080	24 / 23.98	Progressive	74.25 / 74.18

### HDMI OUTPUT MODES

SDI INPUT		HDMI Output Mode	
		RESOLUTION	Output Format
SD-SDI	480i59.94	1440 x 480	YCbCr 422 10bit**
	576i50	1440 x 576	YCbCr 422 10bit**
HD-SDI	1035i60/59.94	1920 x 1035	YCbCr 422 10bit**
	1080i60/59.94	1920 x 1080	YCbCr 422 10bit**
	1080i50	1920 x 1080	YCbCr 422 10bit**
	1080PsF24/23.98	1920 x 1080	YCbCr 422 10bit**
	1080p30/29.97	1920 x 1080	YCbCr 422 10bit**
	1080p25	1920 x 1080	YCbCr 422 10bit**
	1080p24/23.98	1920 x 1080	YCbCr 422 10bit**
	720p60/59.94	1280 x 720	YCbCr 422 10bit**
	720p50	1280 x 720	YCbCr 422 10bit**
	720p30/29.97	1280 x 720	YCbCr 422 10bit**
	720p25	1280 x 720	YCbCr 422 10bit**
	720p24/23.98	1280 x 720	YCbCr 422 10bit**
3G-SDI	1080p60/59.94	1920 x 1080	YCbCr 422 10bit**
	1080p50	1920 x 1080	YCbCr 422 10bit**
	1080i60/59.94	1920 x 1080	
	1080i50	1920 x 1080	
	1080PsF24/23.98	1920 x 1080	
	1080p30/29.97	1920 x 1080	
	1080p25	1920 x 1080	
	1080p24/23.98	1920 x 1080	

  

INPUT FORMAT	OUTPUT FORMAT
RGB 12 . 10 bit	RGB 12 . 10 bit **
YCbCr 444 12 / 10 bit	YCbCr 444* 12 / 10 bit**
YCbCr 422 12 bit	YCbCr 422 12 bit**

\* When Projector / Monitor does not support YCbCr444, Output Format will be down-sampled to YCbCr422.

\*\* When Projector / Monitor does not support Deep-Color mode, Color-depth will be truncated to 8bit.

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