

NEC STv2 3G HDSDI Interface (SB-04HC)

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

| | |
|---|---|
| SDI Video Input SMPTE 259M 270Mb/s SMPTE 292M 1485Mb/s SMPTE424M 2970 Mb/s | 1x BNC Connector |
| Input Audio Signal SD-SDI 3G / HD-SDI | SMTPE 272M SMTPE 299M |
| SDI Video Output Active Looping Signal | 1x BNC Connector Equalized & Reclocked |
| DVI-D Video | DVI-D HD output resolution matches SDI input, 1440x480i Double Clock for 720x480i/ 1440x576i Double Clock for 720x576i |
| Audio Extraction Format Number of Channels Sample Rate | SDI or HD-SDI 1 stereo channel SD: 48kHz, HD: 48kHz, 44.1kHz, 32kHz |
| Stereo Audio Output Bandwidth Output Level | 20kHz 1VRMS max. into 22k ohms |
| Dimensions [mm] | 200 x 145 x 30 |
| Weight [kg] | 0,34 |
| Operating Temperature [°C] | 5 to +40 |
| Operating Humidity [%] | 20 to 80, Non-condensing |
| Storage Temperature [°C] | -10 to +50 |
| Storage Humidity [%] | 20 to 80, Non-condensing |
| Power Consumption [W] | 4.8 |
| Warranty | 36 months |
| Compatible with | All displays with STv2 slot or DualSlot in combination with Dual Slot STv2 adapter All NEC projectors with STv2 slot |
| Regulatory Approvals | CE, FCC Class B, DOC Class B |
| Manufacturing Code | SB-04HC |
| For additional pictures and Solutions overview, Visit www.nec-display-solutions.com for details. | |

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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.