

CL-4100

HD/SD - SDI to ASI Real time Encoder Converter



In digital video broadcast it is common for programs to originate as an SDI signal. These signals can be either HD-SDI or SD-SDI. Uncompressed video is useful in the beginning of a broadcast system, but uses far too much bandwidth for large scale broadcast. DVB-ASI is a very useful signal protocol that carries compressed video streams in the form of MPEG-2 or MPEG-4. The CL-4100 HD encoder Converts HD-SDI (SMPTE292M) or SD SDI (SMPTE259M) from uncompressed video and audio to MPEG-2 DVB-ASI, using 4:2:2 MPEG2 CODEC for compression. High quality MPEG2 video and up to eight-channels of embedded audio are available on the ASI BNC port in real time. Uncompressed HD-SDI inputs are compressed to ASI (MPEG2 TS) with programmable bit-rates from 11 to 40 Mb/s. For applications requiring MPEG-4 streams, we also offer the CL4200, which encodes the stream under the MPEG4 H.264 codec instead.

FEATURES

- Converts HD-SDI to MPEG2 ASI with embedded audio
- Encode MPEG-2 transport
- streams with a choice of eight different bitrate settings, from 11Mbps to 40Mbps
- Supports HD video resolutions up to and including 1920x1080

MODEL SELECTION

- CL-4100 - HD/SD SDI to MPEG2 ASI TS Converter HD Encoder
- CL-4200 - HD/SDI SDI to MPEG4 H.264 ASI TS Converter HD Encoder

AUDIO ENCODING

HD-SDI 2-channel embedded audio (SMPTE 299M Ch1, Ch2 only)-
DOES NOT SUPPORT AC-3 Audio

APPLICATIONS

- High Quality HD Video/Audio Acquisition and Delivery
- Real-Time HD-SDI <--> / ASI
- 1080i, 720p, 1080p24
- Tapeless Workflow

VIDEO INPUT

- HD-SDI (SMPTE 292M)
- BNC 75 Ohm
- Data rate - 1485 Mbps
- HD-SDI Input (with 4-channel embedded audio and time-code)
- 1080i60/59.94/50
- 1080p30/29.97/25/24/23.98
- 720p60/59.94/50

VIDEO ENCODING

- DVB-ASI
- BNC -75 Ohm
- Data rate - Up to 19.2 Mb/s
- MPEG-2 transport stream
- HDV (auto select)
- HD1: 720/30p, 720/25p (video bit rate: 18.3 Mb/s; audio stream: stereo MPEG Audio Layer 2, 384 kb/s)
- HD2 1080/59.94i, 1080/50i (video bit rate: 25 Mb/s; audio stream: stereo MPEG Audio Layer 2, 384 kb/s)
- Additional formats (dip switch select)
- Video bit rate: 11-, 14-, 16-, 18-, 20-, 25-, 30-, 40 Mb/s
- Audio stream: MPEG Audio Layer 2, 384 kb/s

INPUT INTERFACE OPTIONS

- 2 x HDMI Input
- 4 x HDMI Input
- 1 x SD Input
- 2 x SD Input
- 4 x SD Input
- 1 x RGB Input
- 2 x RGB Input

