

ENC3580

DIBVISION | DIBSYS

Real Time Stream Processor 8 in 1 HD/SD Transcoder

H.264
MPEG-4 AVC

MPEG2



ENC3580 is a professional bidirectional transcoder to convert video between H.264 and MPEG-2 format and also to transcode between HD and SD programs simultaneously. It is equipped with 6 DVB-S2/C/T tuner inputs to receive channels directly, or ASI/IP inputs to receive digital channels. After transcoding, it outputs MPTS & SPTS through the DATA IP or ASI port.

One of the main features of ENC3580 is integrated HD-to-SD down Converting, making the launch of differentiated services, such as an all-HD broadcast of the SD lineup simple and cost effective. Another outstanding feature of ENC3580 is that it can transcode HD/SD H.264 to MPEG-2, so that easy to change H.264 signals from satellite and so on to low-cost MPEG-2 application system.

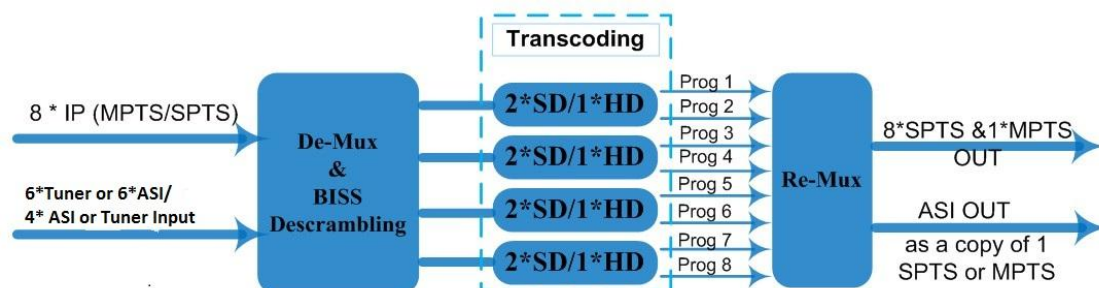
This transcoder supports advanced re-multiplexing and can effectively provide operators with real-time code rate switch and optimize the video with its high performance.

BISS function is now embedded to descramble your tuner input programs and CC function as well to transport your closed caption (or teletext). It can be easily managed through WEB NMS system, and has become an ideal solution for operator to provide high quality video trans-coding.

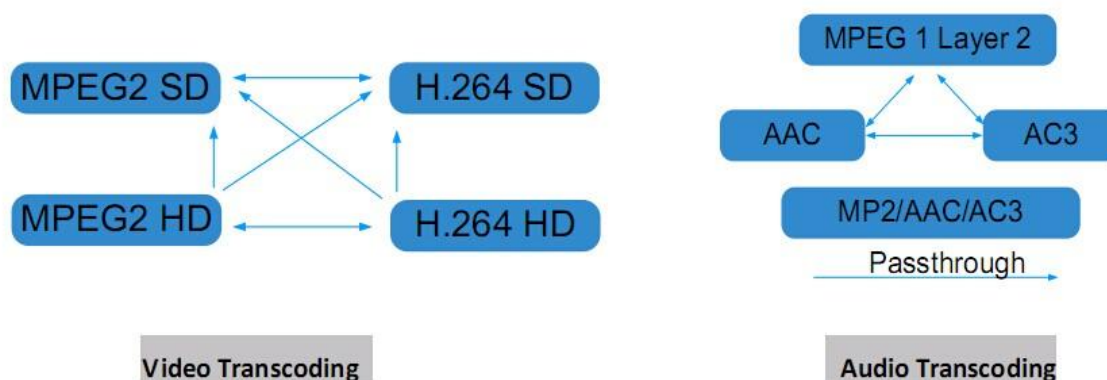
Features

- 8 * IP (SPTS/MPTS) input, and has 6* tuners or 6*ASI, 4* tuners or 4*ASI, 4*tuners input with 4 CAM/CI slots multi-input options
- 8*SPTS & 1*MPTS (UDP and RTP/RTSP) output; 2 ASI output
- High-quality, high density transcoding of 8 SD or 4 HD MPEG-2 and MPEG-4 AVC broadcast channels
- SD/HD MPEG-2 to MPEG-2 and MPEG-4 AVC to MPEG-4 AVC re-encoding
- Support BISS (Basic Interoperable Scrambling System) conditional access
- Support CC(closed caption)
- HD to SD down conversion
- MPTS/SPTS(Simultaneously) over IP outputs
- MPEG-2 SD/HD and H.264 SD/HD any-to-any Video Transcoding
- AAC and MPEG-2 AC3(optional) any-to-any audio trans- coding or pass-through
- Supporting CBR and VBR rate control
- Support screen ratio 16:9 and 4:3
- Advanced re-multiplexing
- Easy-to-Use System Management
- LCD & Key board local control; WEB NMS management

Principal Chart



Trans-coding Mode Example



TECHNICAL SPECIFICATIONS

Stream In

MPTS/SPTS over UDP/RTP
1000M Base-T Ethernet Interface / SFP interface
6 * DVB-S2 Tuner (DVB-C/T/ISDB-T/ ATSC; 6*ASI Optional)
4 * DVB-S2 Tuner (DVB-C/T/ISDB-T/ ATSC; 4*ASI Optional)
4* RF tuners with 4 CAM/CI slots
1*ASI (option)

Stream output

8*SPTS & 1*MPTS over UDP/RTP/RTSP, 1000M Base-T Ethernet Interface (UDP, RTP/RTSP unicast / multicast) / SFP interface
PCR re-jitter and filter null packet; Configure 2 to 7 TS packets/IP packet
1*ASI (as a copy of one of the 8 SPTS or the MPTS) output, BNC interface

Video

Resolution 1920x1080P, 1920x1080i, 1280x720P, 720x576i, 720x480i
Trans-coding 480x576, 544x576, 640x576, 704x576
4*MPEG2 HD → 4*MPEG2/H.264 HD;
4*MPEG2 HD → 4*MPEG2/H.264 SD;
8 *MPEG2 SD → 8 *MPEG2/H.264 SD
4* H.264 HD → 4*MPEG2/H.264 HD;
4* H.264 HD → 4*MPEG2/H.264 SD;
8* H.264 SD → 8 *MPEG2/H.264 SD
High/Main/baseline profiles
Profiles Rate Control
Stream In: VBR(H.264 SD/HD); CBR

(MPEG-2 SD/HD)
Stream Out: CBR
Support Subtitle and CC(Close caption)

Audio
Transcoding
Sampling rate
Bit-rate

MPEG-1 Layer 2, AAC and AC3(optional) any-to -any or pass through
48KHz
64Kbps-384Kbps

BISS

Up to 8 programs descrambling

Management

LCD & Key board control; Web NMS management, Ethernet software upgrade

OPTION

OPT-In: RF(DVB-C/S2/T/ATSC/ISDB-T) or ASI input

Environment
Power consumption
Operation temperature
Storage temperature
Power Supply

20W
0~45℃
-20~80℃
AC 110V±10%, 50/60Hz or AC 220V±10%, 50/60Hz
430mm×405mm×45mm (WxDxH)
5Kg