# NDS3248 8-in-1 Transcoder



**Tuner Input Version**

**ASI Input Version**

> ⚠ **AC3 trans-coding（Optional）**
> **CC (Closed Caption)**
> **BISS Descrambling**

## Brief Introduction

NDS3248 is a professional bidirectional trans-coder to convert video between H.264 and MPEG-2 format and also to trans-code between HD and SD programs simultaneously. It is equipped with 6 tuner inputs to receive channels directly from satellite, or ASI /IP inputs to receive digital channels. After trans-coding, it outputs MPTS & SPTS through the DATA port or ASI port.

This trans-coder supports advanced re-multiplexing and can effectively provide operators with real-time code rate switch and optimize the video with its high performance.
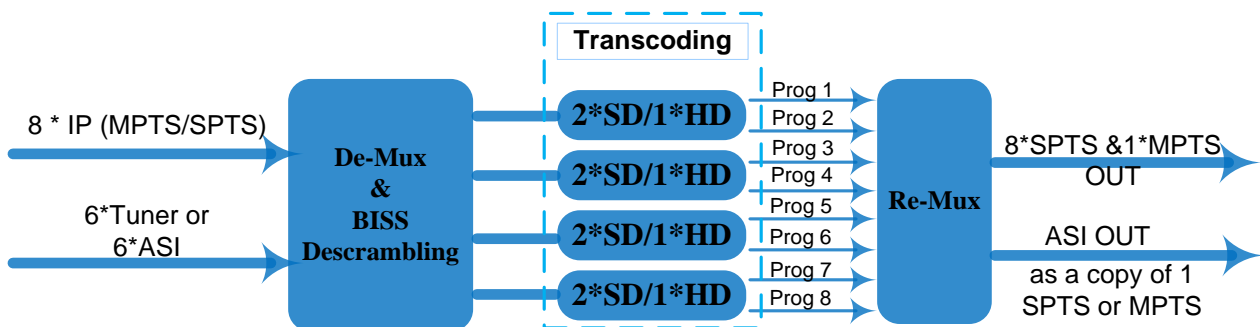
BISS function is now embedded to descramble your tuner input programs and CC function as well to transport your closed caption (or teletext).

It can be easily managed through web NMS system, and has become an ideal solution for operator to provide high quality video trans-coding.
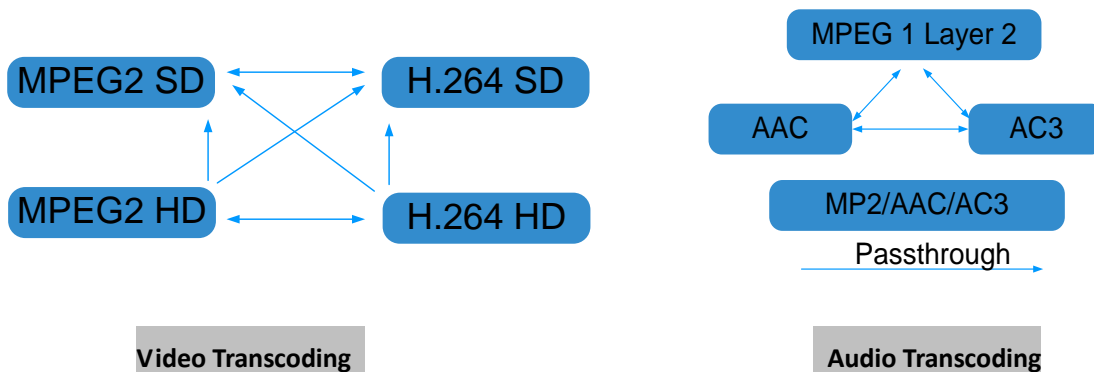
## Key Features

- Support 8*IP (SPTS/MPTS) input plus 6*tuners (or 6*ASI) input
- Support 8*SPTS & 1*MPTS (UDP/RTP/RTSP) output; 1 ASI (MPTS) output
- Video Trans-coding: MPEG-2 SD/HD and H.264 SD/HD any-to-any
- Audio Trans-coding: AAC, MP2 and AC3 (Optional) any-to-any or pass-through.
- Support maximal 8 SD or 4 HD programs trans-coding
- Support maximal 8 channel audio trans-coding
- Support HD and SD resolutions
- Support CBR and VBR rate control
- Support CC (closed caption)
- Support BISS descrambling
- Support IP out with null packet filtered
- Advanced re-multiplexing
- LCD & Key board local control; web NMS management

## Principle Chart



## Trans-coding Mode Example



**Video Transcoding**

**Audio Transcoding**

# Technical Specifications

| | | |
|---|---|---|
| **Stream In** | MPTS/SPTS over UDP/RTP, 1000M Base-T Ethernet Interface/ SFP interface | |
| | 6 * (DVB-S/S2/C/T/ISDB-T/ATSC) Tuners; 6 * ASI (optional) | |
| **BISS Descramble** | Maximum 8 programs | |
| **Video** | Resolution | 1920x1080P,1920x1080i,1280x720P, 720x576i, 720x480i<br>480x576, 544x576, 640x576, 704x576 |
| | Trans-coding | 4*MPEG2 HD → 4*MPEG2/H.264 HD ;<br>4*MPEG2 HD → 4*MPEG2/H.264 SD ;<br>8 *MPEG2 SD → 8 *MPEG2/H.264 SD |
| | | 4* H.264 HD → 4*MPEG2/H.264 HD ;<br>4* H.264 HD → 4*MPEG2/H.264 SD ;<br>8* H.264 SD → 8 *MPEG2/H.264 SD |
| | Rate Control | CBR/VBR |
| **Audio** | Trans-coding | MPEG-1 Layer 2, AAC and AC3(Optional) any-to-any or pass through |
| | Sampling rate | 48KHz |
| | Bit Rate | 64Kbps-384Kbps |
| **Stream Out** | 8*SPTS & 1*MPTS over UDP/RTP/RTSP, 1000M Base-T Ethernet Interface (UDP/RTP uni-cast / multicast)  /SFP interface | |
| | 1*ASI (as a copy of one of the 8 SPTS or the MPTS) output, BNC interface | |
| **System Function** | LCD & Key board control; web NMS management | |
| | Ethernet software upgrade | |
| **General** | Dimensions | 430mm×405mm×45mm(WxDxH) |
| | Approx weight | 4.8 Kg |
| | Temperature range | 0~45℃(Operation), -20~80℃(Storage) |
| | Power requirements | AC 110V±10%, 50/60Hz or AC 220V±10%,50/60Hz |
| | Power consumption | 20W |