



## NDS3243 Single Channel HD Transcoder



### Brief Introduction

DEXIN NDS3243 is a high integrated device which contains demodulation (2\*DVB-C/T/S2/ATSC optional), de-scrambler, decoder and transcoder in one case. It can convert AVS+ to H.264 or MPEG2, and trans-code between H.264 and MPEG-2 format, and also downscale HD video to SD video simultaneously. It is equipped with 2 tuner inputs to receive channels directly from satellite/coaxial-cable etc, and each tuner is accompanied with a CAM/CI slot to descramble the encrypt content. To meet customers' various requirements, NDS3243 is also equipped with 1 ASI and 2 GE input port with 32 IP (UDP/RTP) input, and output video&audio (CVBS/YPbPr/HDMI/SDI) after decoding, and also output IP/ASI after transcoding.

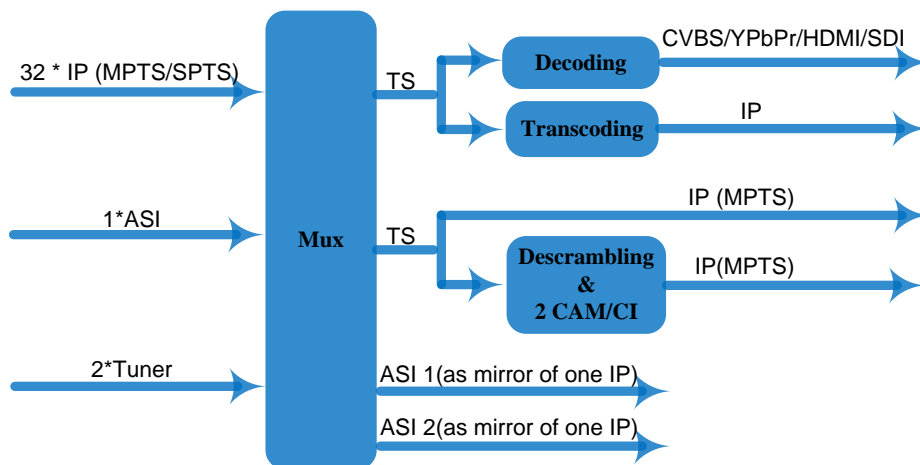
It can be easily managed through web NMS system, and has become an ideal solution for operator to provide high quality video trans-coding.

### Key Features

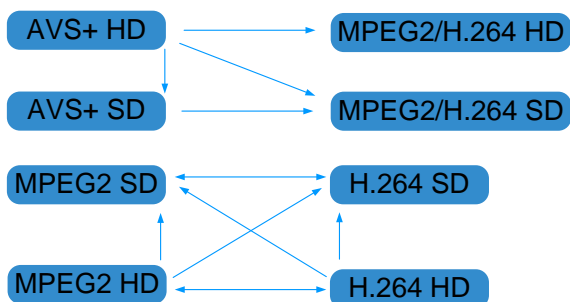
- Support 32\*IP (UDP/RTP) input +2\*tuners input with 2 CAM/CI slots+1 ASI input
- Support 3\*IP (UDP) output; 2 groups of ASI output
- Support AVS+, MPEG-2, H.264 SD/HD decoding, CVBS/YPbPr/HDMI/SDI output HD/SD resolutions
- Video Trans-coding: AVS+ SD/HD to MPEG-2 SD/HD and H.264 SD/HD;  
MPEG-2 SD/HD and H.264 SD/HD any-to-any

- **Audio Trans-coding: MPEG-2, MPEG-2 AAC, MPEG-4 AAC, AC3 any to any; AC3 pass-through;**
- **Support 1 SD or 1 HD programs trans-coding , and 1 channel audio trans-coding**
- **Support CBR and VBR rate control**
- **Support CC (closed caption) only for decoding**
- **Support BISS descrambling**
- **Support IP out with null packet filtered**
- **LCD & Key board local control; web-based NMS management**

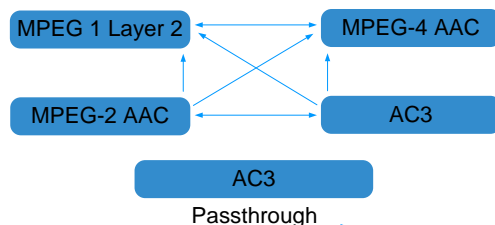
## Principle Chart



## Trans-coding Mode Example



Video Transcoding



Audio Transcoding

## Technical Specifications

<b>Stream In</b>	32 IP over UDP/RTP, 2*100/1000M Base-T Ethernet Interface		
	2 * DVB-C/T/S2/ATSC Tuners		
	1 ASI input		
<b>BISS Descramble</b>	1 program		
	Mode 0, Mode1, Mode E		
<b>Transcoding</b>	Video	AVS+ HD → MPEG2/H.264 HD AVS+ HD → MPEG2/H.264 SD AVS+ SD → MPEG2/H.264 SD	
		MPEG2 HD → MPEG2/H.264 HD ; MPEG2 HD → MPEG2/H.264 SD ; MPEG2 SD → MPEG2/H.264 SD	
		H.264 HD → MPEG2/H.264 HD ; H.264 HD → MPEG2/H.264 SD ; H.264 SD → MPEG2/H.264 SD	
Audio	MPEG-2, MPEG-2 AAC, MPEG-4 AAC and AC3 any to any; AC3 pass through		
<b>Decoding</b>	Video Output	1×CVBS; 1×YPbPr ; 1×HDMI; 2×HD-SDI	
	Resolution	480i, 480p, 576i, 576p, 720p@50, 720p@60, 1080i@50, 1080i@60, 1080p@50, 1080p@60	
	Rate Control	CBR/VBR	
	Audio Output	1*Stereo /2*mono, HDMI, SDI	
	Audio Sampling	48KHz	
	Audio Bit Rate	64Kbps-384Kbps	
<b>Stream Out</b>	3*IP over UDP protocol, 2*100M/1000M Base-T Ethernet Interface, one for backup		
	2 groups separate ASI outputs (each group has 2 channels, as a copy of one of IP) output, BNC interface		
<b>System Function</b>	LCD & Key board control; web-based NMS management		
	Ethernet software upgrade		
<b>General</b>	Dimensions	430mm×405mm×45mm (WxDxH)	
	Approx weight	4.8 Kg	
	Temperature range	0~45°C (Operation), -20~80°C (Storage)	
	Power requirements	AC 200V-240V, 50/60Hz, 2A	