



NDS3510



Multi-Channel Transcoder



Basic Model:

Up to 76 SD / 24 HD channel transcoding

Advanced Model:

Up to 100 SD / 78 HD channel transcoding

Outline

NDS3510 multi-channel transcoder supports to convert multiple video formats to H.264/H.265 based on software. With enhanced hardware, it presents superior performance with high reliability and stability. It is typically used to reduce video bitrate and more effectively utilize the tight network bandwidth resources.

Key Features

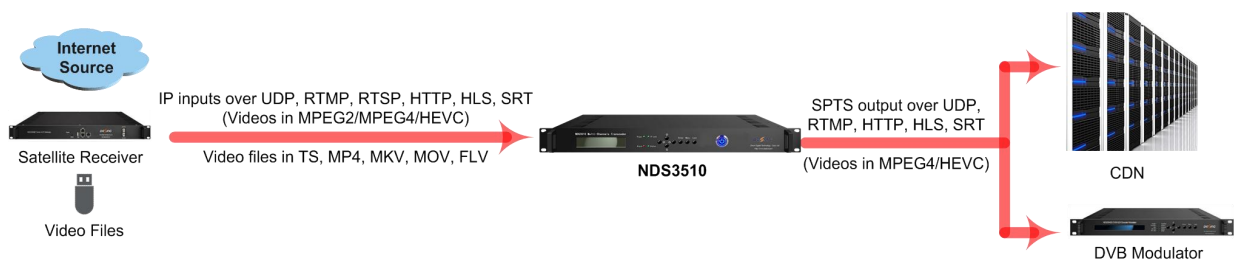
- Support multi-channel transcoding
- Video input in MPEG2/H.264/H.265 format, output in H.264/H.265 format
- IP input over UDP/RTMP/RTSP/HTTP/HLS/SRT; Video file input over TS/MP4/MKV/MOV/FLV
- IP SPTS output over UDP/RTMP/HTTP/HLS/SRT
- Support convert one stream output by multiple protocols
- Support resolution and bitrate downscale and upscale conversion
- Support null packet insert (for UDP out)
- Web-base GUI and LCD/Key button for easy management



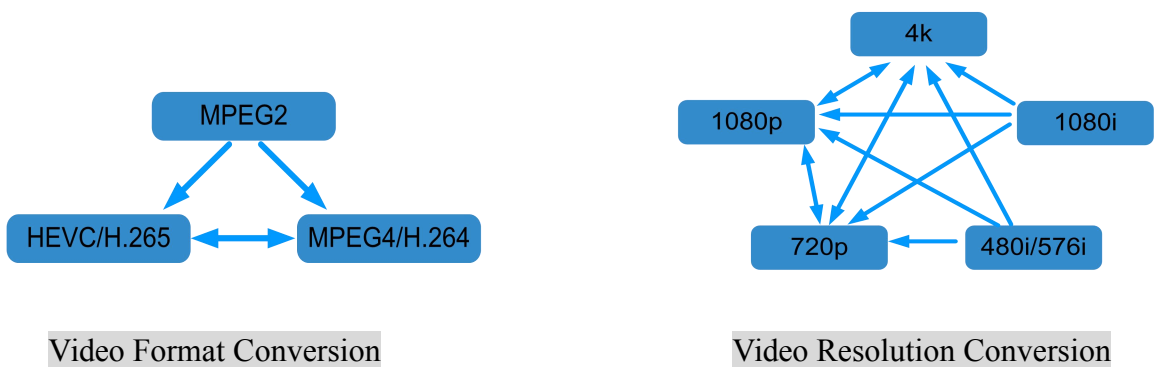
All the specifications are subject to change without any further notice. All rights reserved.

Add: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, P.R. China
www.dsdvb.com/English Tel: +86-028-85558928 Fax: +86-028-85585255 Email: sunyu@dsdvb.com

Application Example



Transcoding Mode Example



Specifications

Input	IP Stream Input	2x GE port, RJ45, Protocol: UDP (MPTS/SPTS); RTMP, RTSP, HTTP, HLS, SRT (SPTS)
	Video file input	TS, MP4, MKV, MOV, FLV
Video	Input Format	MPEG-2/H.264/H.265
	GOP	0-60
	Output Format	H.264 (main/baseline/high profile); H.265
	Resolution	Input: 4K-50/25, 1080p-60/50, 1080i-60/50, 720p-60/50, 576i, 480i Output: 4K-50/25, 1080p-60/50, 1080p-30/25, 720p-60/50, 576p-25, 480p-30
	Bitrate out	0.5Mbps - 20 Mbps
Audio	Format	MPEG-2, AC3, AAC, AAC-HE, AAC-HE-V2
	Sampling rate	44.1KHz, 48KHz
	Bitrate out	MPEG-2: 32Kbps~384Kbps AC3, AAC, AAC-HE, AAC-HE-V2: 48Kbps~640Kbps
Video quality mode		high, balanced, normal
IP out	2x GE port, RJ45, SPTS Protocol: UDP, RTMP (Client mode, push stream to server) RTMP, HTTP, HLS (Server mode, pull stream) SRT (just use caller mode and TS payload)	
System	Web-base GUI and LCD/Key button	
	Language: Chinese/English	
	Ethernet software upgrade	

General	Dimension	482mm×328mm×44mm (W×L×H)
	Net weight	Approx 4kg
	Temperature	0~50℃(operation), -20~80℃(storage)
	Power Supply	AC 100V-240V 50/60Hz, 2A
	Consumption	≤150W

Below data is from internal test and for reference only. The data may change in actual applications.

Test data based on Balanced mode and Multicast output (Basic Model)

Input		Output			Channel
Resolution	Video Format	Resolution	Video Format	Bit Rate	NO.
4K-50	H.265/H.264/MPEG2	576p-25/720p/1080p/4K-25/4K-50	H.265/H.264	0.5 - 20Mbps	2-3
4K-25		576p-25/720p/1080p/4K-25			5-6
1080p-60/50		480p-30/576p-25/720p/1080p			10-12
1080i-60		480p-30/576p-25/720p/1080p-30/25			19-21
1080i-50					22-24
720p-60/50		480p-30/576p-25			22-24
480i/576i		480p-30/576p-25			70-76

Test data based on Balanced mode and Multicast output (Advanced Model)

Input		Output			Channel
Resolution	Video Format	Resolution	Video Format	Bit Rate	NO.
4K-50	H.265/H.264/MPEG2	4K-50	H.265/H.264	0.5 - 20Mbps	3-4
		4K-25			6-8
		1080p/720p/576p-25/480p-30			11-14
4K-25		4K-25			7-9
		1080p-60/50			12-14
		1080p-30/25, 720p-60/50			27-32
		576p-25/480p-30			32-38
1080p-60/50		1080p-60/50			13-17
		1080p-30/25, 720p-60/50			29-34
		576p-25/480p-30			48-56
1080i-60/50		1080p-30/25			28-32
		720p-60/50			30-36
		576p-25/480p-30			68-78
720p-60/50		720p-60/50			30-36
		576p-25/480p-30			68-78
480i/576i		576p-25/480p-30			90-100