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DTV product

>> **PCIe Card**

>> **Encoder**

>> **Modulator/Modem**

>> **Encoder Modulator**

>> **Headend Processor**

>> **IRD/Decoder/Transcoder**

>> **Multiplexer/Scrambler**

>> **IP Gateway**

>> **Transmitter/Receiver**

>> **Software**

>> **Other Device Related**

Contact Us

yingyingbai131

info@dsdvb.com

86-28-85550524

Device Search: Input Output Inner Function

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.
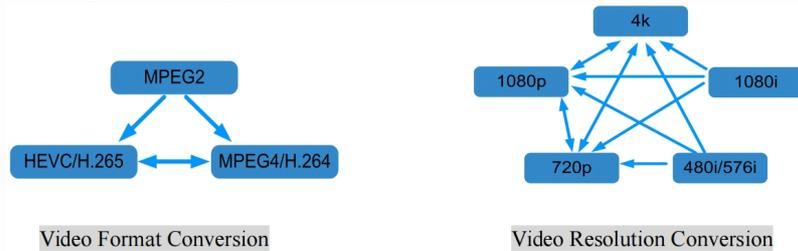
Key Features

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

Application Example

Transcoding Mode Example

Video Format Conversion

Video Resolution Conversion

Specifications

Input		
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	Sampling rate	44.1KHz, 48KHz
	Bitrate out	32Kbps~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 (WxLxH)
	Net weight	Approx 4kg
	Temperature	0~50℃(operation), -20~80℃(storage)
	Power Supply	AC 100V-240V 50/60Hz, 2A
	Consumption	≤150W

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

Input		Output			Channel NO.
Resolution	Video Format	Resolution	Video Format	Bit Rate	
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 (for reference) -- Advanced Model

Input		Output			Channel NO.
Resolution	Video Format	Resolution	Video Format	Bit Rate	
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