



**NDS3544KD**

**Multi-Channel Encoder**



## Product Overview

NDS3544KD Multi-Channel Encoder is the new broadcasting audio & video encoding and multiplexing device with powerful functionality. It is equipped with 12 SDI audio & video input interfaces and 32 IP input through Data 1 port. It supports both MPEG-2 and MPEG-4 AVC/H.264 HD/SD video encoding and MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, Dolby Digital AC3 (2.0) audio encoding, AC3 (2.0/5.1) pass through. NDS3544KD supports 1MPTS and 12 SPTS IP (DATA1 and DATA2 port) output over UDP, RTP/RTSP. Its high integration and cost-effective design make this device widely used in variety of digital distribution systems such as CATV digital head-end, satellite and terrestrial digital TV, etc.

## Key features

- **12 HD-SDI inputs with MPEG2 & MPEG4 AVC/H.264 Encoding**
- **MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, Dolby Digital AC3 (2.0) encoding , AC3 (2.0/5.1) passthrough**
- **Support 12 channel CC (close caption) input, EIA608/EIA708**
- **Support 32 IP input(Data 1 port) over UDP and RTP**
- **Support 1MPTS and 12 SPTS IP (DATA1 and DATA2 port) output over UDP, RTP/RTSP**
- **Support ASI output as mirror of MPTS**
- **Support PID remapping/ accurate PCR adjusting/PSI/SI editing and inserting**
- **Control via web management, and easy updates via web**

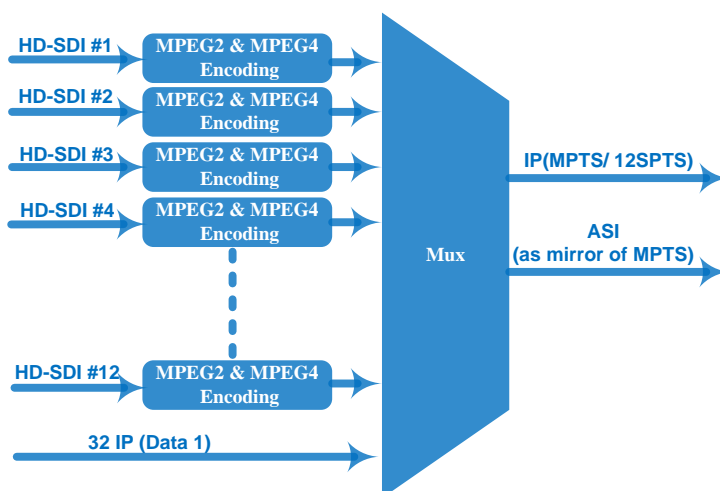


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## Principle Chart



## Technical specification

<b>Input</b>	12 HD-SDI inputs with CC (EIA608/EIA708) 32 IP input over UDP and RTP through DATA 1 port	
<b>Video</b>	Input	1920*1080_60p, 1920*1080_50p, 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P, 720*480_60i, 720*576_50i
	Output	1920*1080_60p, 1920*1080_50p, 1920*1080_60i, 1920*1080_50i, 1440*1080_60i, 1440*1080_50i, 1280*720_60p, 1280*720_50P, 720*576_50p, 720*576_50i, 720*576_30p, 720*576_25p, 720*480_60p, 720*480_60i, 720*480_30p, 720*480_25p, 320*240_60p, 320*240_50p, 320*240_30p, 320*240_25p, 320*180_60p, 320*180_50p, 320*180_30p, 320*180_25p, 960*540_50i, 704*576_50i, 704*480_60i, 640*576_50i, 640*480_60i, 544*576_50i, 544*480_60i,
	Resolution	
	Encoding	MPEG2 & MPEG4 AVC/H.264
	Bit-rate	0.8~19Mbps for H.264 encoding 1~19Mbps for MPEG-2 encoding
	Rate Control	CBR/VBR
	GOP Structure	GOP B Frame: 0-3, GOP P Frame: 0-6
<b>Audio</b>	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, Dolby Digital AC3 (2.0) encoding, AC3 (2.0/5.1) passthrough
	Sampling rate	48KHz
	Bit-rate	64Kbps-320kbps each channel
<b>Multiplexing</b>	Maximum PID Remapping	180 input per channel
	Function	PID remapping ( automatically or manually)
		Accurate PCR adjusting
		Generate PSI/ SI table automatically

<b>Stream output</b>	1 MPTS and 12 SPTS IP output over UDP and RTP/RTSP, 2*1000M Base-T Ethernet interface, Data 1 and Data 2 1 ASI output as mirror of MPTS	
<b>System function</b>	Network management (WEB) Ethernet software upgrade	
<b>Miscellaneous</b>	Dimension (W×L×H)	482mm×440mm×44mm
	Environment	0~45°C(work); -20~80°C (Storage)
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz