

Product Overview

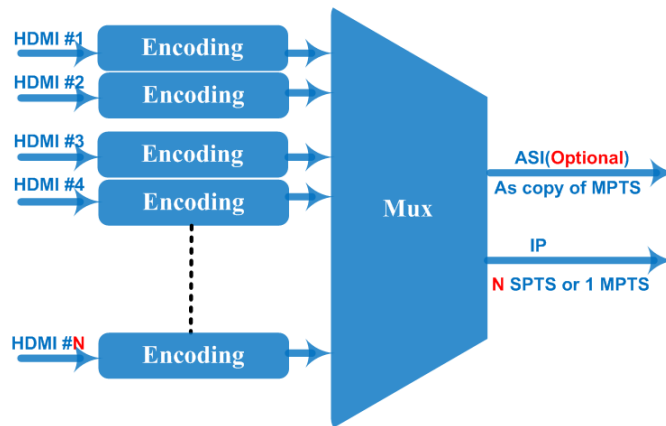
NDS3542L Multi-Channel encoder is a professional HD audio & video encoding and multiplexing device. It has 8/12/16/20/24 HDMI video input interfaces, and supports MPEG-4 AVC/H.264 video encoding and MPEG 1 Layer 2 audio encoding. This device can simultaneously encode 8/12/16/20/24 channels HD audio & video; moreover, the IP output can support 1MPTS and 8/12SPTS (8/12 HDMI inputs) IP output from Data1 or Data2, and support 1 MPTS or 16/20/24 SPTS (16/20/24 HDMI inputs). In conclusion, its high integrated and cost effective design makes the device widely used in varieties of digital distribution systems such as cable TV digital head-end, digital TV broadcasting etc.

Key features

- 8/12× HDMI inputs with 8/12 SPTS and 1 MPTS output through Data 1 or Data 2
- 16 /20/24× HDMI inputs with 16 /20/24 SPTS or 1 MPTS output through Data 1 or Data 2

- MPEG4 AVC/H.264 video encoding format
- MPEG1 Layer II audio encoding format, and audio gain adjustment
- 1 ASI output (optional) as copy of MPTS
- IP output over UDP and RTP protocol
- **Support QR code, LOGO, caption insertion** (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русская, اردو for more languages please consult us...)
- **Support output resolution downscale conversion—For 8/12 HDMI input version**
- Support “Null PKT Filter” function
- Support PID Remapping/ PCR accurate adjusting
- Control via web management, and easy updates via web

Principle Chart



Technical specification

Input	8/12/16/20/24 HDMI inputs		
Video	Resolution	input	1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P,
		Output	1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, -- for 16/20/24 HDMI input version
		Output (New)	160×124 ≤ Output resolution ≤ input resolution halve frame rate --for 8/12 HDMI input version
	Encoding	MPEG-4 AVC/H.264	
	Bit-rate	1~13Mbps each channel	
	Rate Control	CBR/VBR	
	GOP Structure	IP...P (P Frame adjustment, without B Frame)	
Audio	Encoding	MPEG-1 Layer 2	

	Sampling rate	48KHz
	Resolution	24-bit
	Audio Gain	0-255 Adjustable
	Bit-rate	64/128/192/224/256/320/384Kbps
Multiplexing	Maximum PID Remapping	180 output pids per channel
	Function	PID remapping (automatically or manually) Accurate PCR adjusting
Stream output	ASI output(optional) as copy of MPTS IP output thru Data1 (GE) or Data2(FE) over UDP and RTP protocol (8/12 HDMI inputs with 8/12 SPTS and 1MPTS output 16/20/24 HDMI inputs with 16/20/24 SPTS or 1MPTS output)	
System function	Network management(WEB)	
	Chinese and English language	
	Ethernet software upgrade	
Miscellaneous	Dimension(W×L×H)	482mm×410mm×44mm
	Environment	0~45℃(work); -20~80℃ (Storage)
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz

Technical Comparison

	NDS3214A/NDS3218A (HDMI)	NDS3542L
Chipset	Fujitsu	Hisilicon
Video Channel	4/8×HDMI optional	8/12/16/20/24×HDMI optional
Video Bit Rate	0.8~19 Mbps each channel (Bit rate is with a low fluctuation, suitable for cable system and satellite uplink)	1~13 Mbps each channel (Bit rate is with a high fluctuation, suitable for cable system, not suitable for satellite uplink)
GOP	IBBP	GOP Size=25 (P Frame is adjustable, without B Frame)
Resolution	Up to 1080P-60	Up to 1080P-60 (1080i/p-60/50 to 1080p-30/25 auto downscale conversion)
Audio Encode	MPEG-1 Layer II; AC3 pass-through (HE-AAC V2, LC- AAC Optional)	MPEG-1 Layer II
Audio Gain	0-400 Adjustable	0-255 Adjustable
ASI In & Mux	Yes	N/A
ASI output	Yes	Option as required
IP output	SPTS and 1MPTS	SPTS and 1MPTS (for 8/12 channel) SPTS or 1MPTS (for 16/20/24 channel)

Order Information

	NDS3542L-8	NDS3542L-12	NDS3542L-16	NDS3542L-20	NDS3542L-24
8 HDMI Inputs with 8 SPTS and MPTS out	●				
12 HDMI Inputs with 12 SPTS and MPTS out		●			
16 HDMI Inputs with 16 SPTS or MPTS out			●		
20 HDMI Inputs with 20 SPTS or MPTS out				●	
24 HDMI Inputs with 24 SPTS or MPTS out					●

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