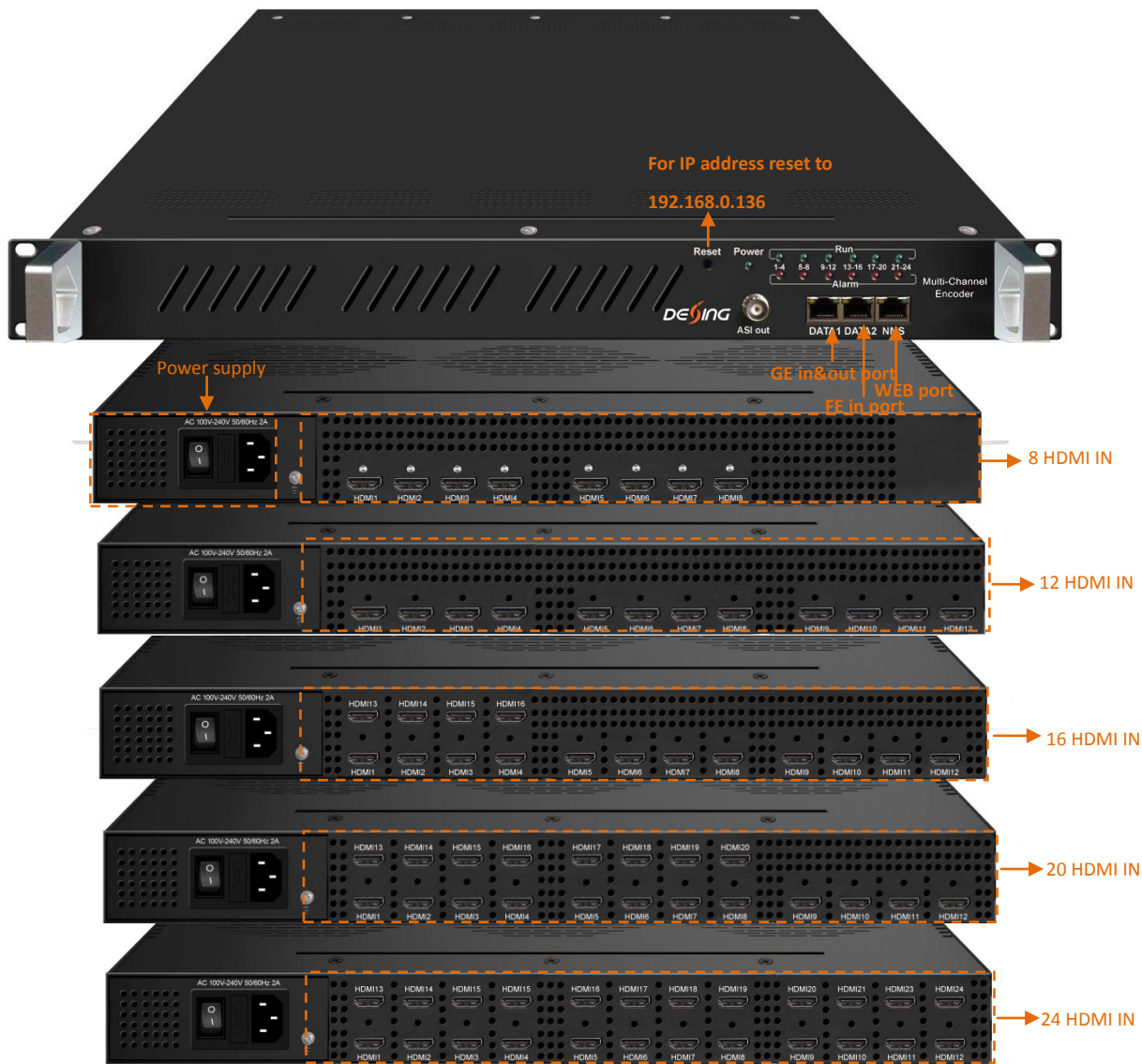




NDS3542L

MPEG4/H.264 HD IP Encoder



## Logo/OSD/QR Code Insertion



## Product Overview

NDS3542L MPEG4 AVC/H.264 HD IP Encoder is a professional HD audio & video encoding and multiplexing device. It has 12 HDMI (8/16/20/24 HDMI optional) video input interfaces, supporting MPEG-4 video encoding and MPEG 1 Layer 2 audio encoding. This device can simultaneously encode 12(8/16/20/24 HDMI optional) channel HD audio & video; moreover, it has an IP output port can support 1MPTS and 12SPTS (8/16/20/24 SPTS) IP out. 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, satellite digital TV broadcasting etc.

## Key features

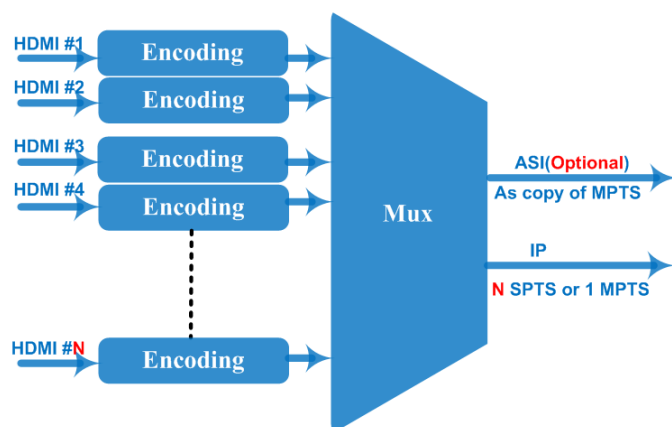
- 8× HDMI video inputs with 8 SPTS and 1 MPTS output through Data 1 or Data 2
- 12 × HDMI video inputs with 12 SPTS and 1 MPTS output through Data 1 or Data 2
- 16 × HDMI video inputs with 16 SPTS or 1 MPTS output through Data 1 or Data 2
- 20 × HDMI video inputs with 20 SPTS or 1 MPTS output through Data 1 or Data 2
- 24×HDMI video inputs with 24 SPTS or 1 MPTS output through Data 1 or Data 2
- Support MPEG4 AVC/H.264 video encoding format
- MPEG1 Layer II audio encoding format, support audio gain adjustment
- Support 1 ASI output (optional) as copy of MPTS
- Support IP output over UDP and RTP
- **Support QR code, LOGO, OSD insertion**
- support “Null PKT Filter” function
- Support PID Remapping
- Support PCR accurate adjusting
- Support PSI/SI editing and inserting
- Control via web management, and easy updates via web
- Lowest cost per channel, breakthrough price

## Principle Chart



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

Address: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, P.R. China  
Website: [www.dsdtvb.com/English](http://www.dsdtvb.com/English) Telephone: +86-028-85558928 Fax: +86-028-85585255 Email: [sunyu@dsdtvb.com](mailto:sunyu@dsdtvb.com)



## Technical specification

<b>Input</b>	12 HDMI inputs ( 8//16/20/24 input optional)		
<b>Video</b>	Resolution	input	1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720×576_50i,720×480_60i,
		output	1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720×576_25P,720×480_30P,
	Encoding	MPEG-4 AVC/H.264	
	Bit-rate	1Mbps~13Mbps each channel	
	Rate Control	CBR/VBR	
	GOP Structure	IP...P (P Frame adjustment, without B Frame )	
<b>Audio</b>	Encoding	MPEG-1 Layer 2	
	Sampling rate	48KHz	
	Resolution	24-bit	
	Audio Gain	0-255 Adjustable	
	Bit-rate	64kbps,128Kbps,192kbps,224kbps,256kbps, 320kbps,384kbps	
<b>Multiplexing</b>	Maximum PID Remapping	180 input per channel	
	Function	PID remapping ( automatically or manually)	
		Accurate PCR adjusting	
<b>Stream output</b>	12 SPTS ( 8/16/20/24 SPTS) IP or 1MPTS output over UDP/RTP, 1*1000 Base-T Ethernet interface		
	ASI output(optional) as copy of MPTS		
<b>System function</b>	Network management(WEB)		
	Chinese and English language		
	Ethernet software upgrade		
<b>Miscellaneous</b>	Dimension(W×L×H)	482mm×410mm×44mm	
	Approx weight	8kg	
	Environment	0~45℃(work); -20~80℃ (Storage)	

Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz
Power consumption	70W

## Technical Comparison

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

## Order Information

	NDS3542L-8	NDS3542L-12	NDS3542L-16	NDS3542L-20	NDS3542L-24
<b>8 HDMI Input with 8 SPTS out</b>	●				
<b>12 HDMI Input with 12 SPTS out</b>		●			
<b>16 HDMI Input with 16 SPTS out</b>			●		
<b>20 HDMI Input with 20 SPTS out</b>				●	
<b>24 HDMI Input with 24 SPTS out</b>					●



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