



**NDS3228S**

**Multi-Channel Encoder**



## Product Overview

NDS3228S Multi-Channel encoder is a professional HD/SD audio & video encoding device. It has 8/16/24 HDMI inputs for option. Every 8 HDMI ports share one encoder module with each module supporting 1MPTS and 8SPTS output. Its high integration 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 HDMI inputs with 8 SPTS and 1 MPTS output (each encoder module), max 24 HDMI inputs**
- **MPEG4 AVC/H.264 video encoding format**
- **MPEG1 Layer II, LC-AAC, HE-AAC audio encoding format and AC3 Pass Through, and audio gain adjustment**
- **IP output over UDP and RTP/RTSP protocol; 1 ASI out as mirror of MPTS (Optional)**
- **Support QR code, LOGO, caption insertion (Language Supported: 中文, English, العربية, ไทย, हिन्दी, русская, اردو for more languages please consult us...)**
- **Support “Null PKT Filter” function**
- **Control via web management, and easy updates via web**

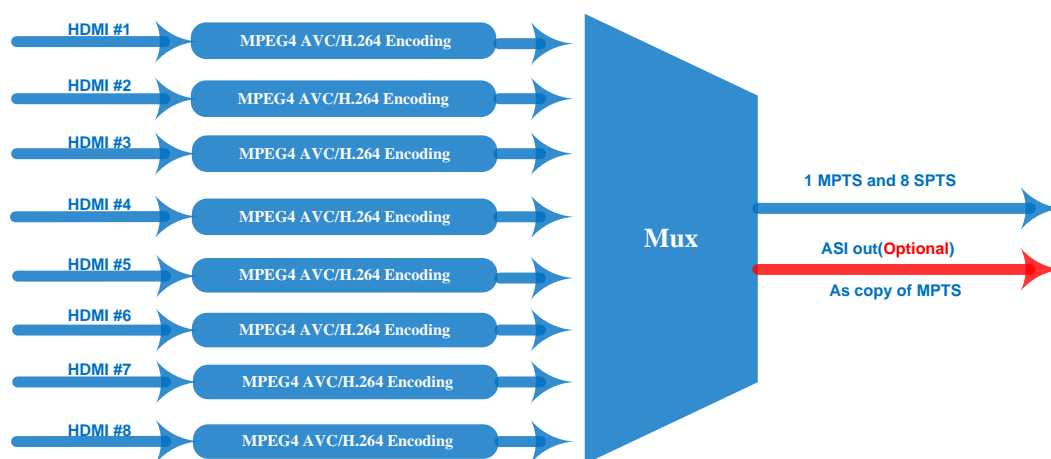


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## Principle Chart (Each Encoder Module)



## Technical specification

<b>Input</b>	8/16/24 HDMI inputs		
<b>Video</b>	Resolution	input	1920×1080_60P, 1920×1080_60i, 1920×1080_50P, 1920×1080_50i, 1280×720_60P, 1280×720_50P, 720 x 576_50i, 720 x 480_60i
		Output	1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720 x 576_25P, 720 x 480_30P
	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 )	
	<b>Audio</b>	Encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC and AC3 Pass through
Sampling rate		48KHz	
Resolution		24-bit	
Audio Gain		0-255 Adjustable	
MPEG-1 Layer 2 Bit-rate		48/56/64/80/96/112/128/160/192/224/256/320/384 kbps	
LC-AAC Bit-rate		48/56/64/80/96/112/128/160/192/224/256/320/384 kbps	
HE-AAC Bit-rate		48/56/64/80/96/112/128 kbps	
<b>Stream output</b>	IP output through DATA (GE) over UDP and RTP/RTSP protocol (8 HDMI inputs with 8 SPTS and 1MPTS output for each encoder board) 1 ASI out as mirror of MPTS (Optional as order)		
<b>System function</b>	Network management(WEB)		
	Chinese and English language		
	Ethernet software upgrade		
<b>Miscellaneous</b>	Dimension (W×L×H)	482mm×328mm×44mm	
	Environment	0~45℃(work); -20~80℃ (Storage)	
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz	

## Order Information

	NDS3228S-8	NDS3228S-16	NDS3228S-24
8 HDMI Inputs with 8 SPTS and 1 MPTS out (1 encoder board+1NMS port+1 DATA Port)	●		
16 HDMI Inputs with 16 SPTS or 2 MPTS out (2 encoder boards+2 NMS ports+2 DATA Ports)		●	
24 HDMI Inputs with 24 SPTS or 3 MPTS out((3 encoder boards+3 NMS ports+ 3 DATA Ports))			●

*Updated Date: 26 Nov, 2020*