

# PRODUCT MODEL NUMBER: TL-9228S MULTI-CHANNEL ENCODER



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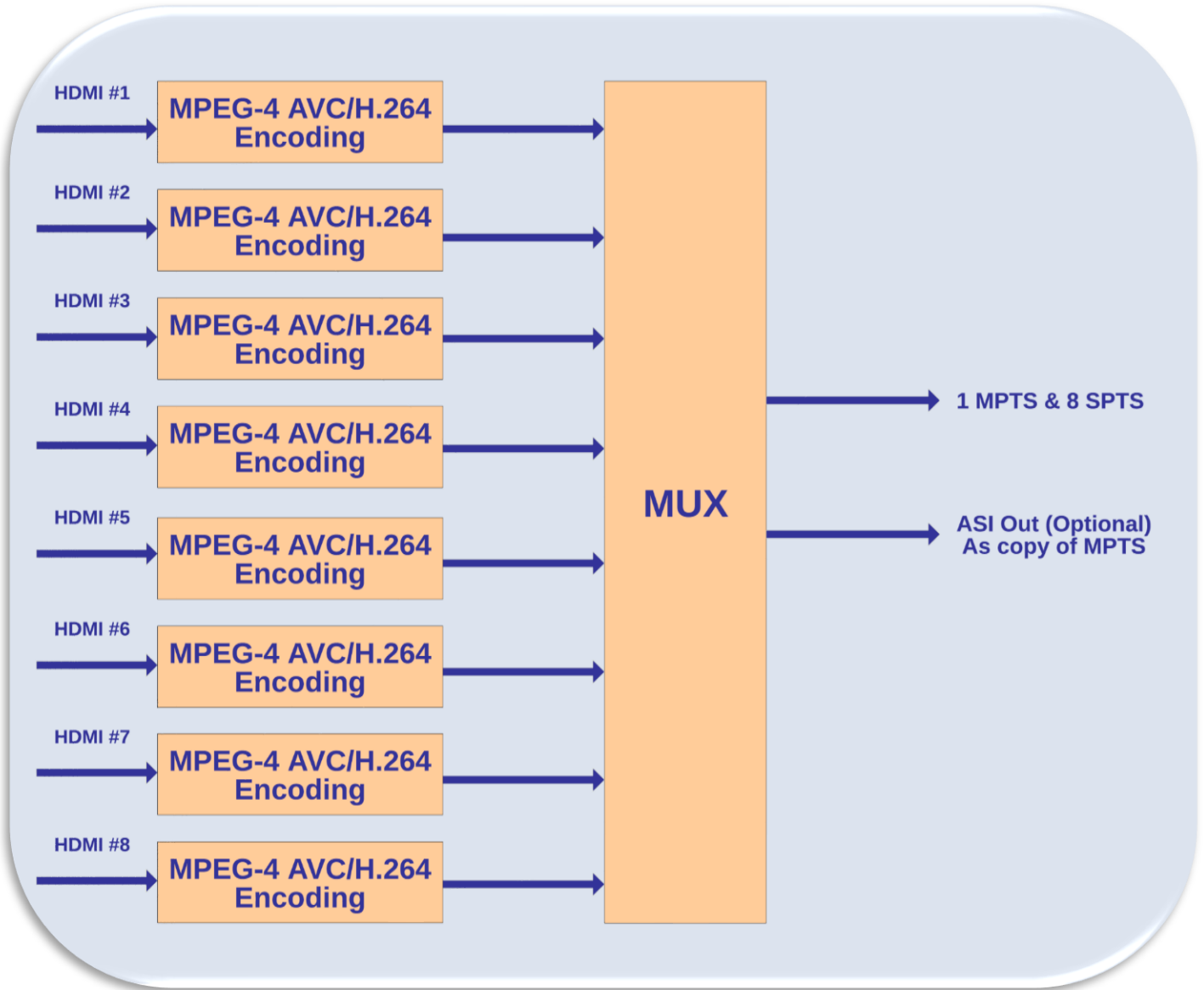
## PRODUCT OVERVIEW

TL-9228S 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 make 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: English)
- Support “Null PKT Filter” function
- Control via web management, and easy updates via web

# PRINCIPLE CHART



# SPECIFICATIONS

Input	
8/16/24 HDMI inputs	
Video	
<b>Input Resolution</b>	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
<b>Output Resolution</b>	1920×1080_30P, 1920×1080_25P, 1280×720_30P, 1280×720_25P, 720 x 576_25P, 720 x 480_30P
<b>Encoding</b>	MPEG-4 AVC/H.264
<b>Bit-rate</b>	1~13Mbps each channel
<b>Rate Control</b>	CBR/VBR
<b>GOP Structure</b>	IP...P (P Frame adjustment, without B Frame)
Audio	
<b>Encoding</b>	MPEG-1 Layer 2, LC-AAC, HE-AAC and AC3 Pass through
<b>Sampling rate</b>	48KHz
<b>Resolution</b>	24-bit
<b>Audio Gain</b>	0-255 Adjustable
<b>MPEG-1 Layer 2 Bit-rate</b>	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps
<b>LC-AAC Bit-rate</b>	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps
<b>HE-AAC Bit-rate</b>	48/56/64/80/96/112/128 kbps
Stream Output	
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)	
System Function	
Network management (WEB)	
Chinese and English language	
Ethernet software upgrade	
General	
<b>Power supply</b>	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz
<b>Dimensions</b>	482*400*44mm
<b>Operation temperature</b>	0~45°C; -20~80°C (Storage)

# ORDER GUIDE

	TL-9228S-8	TL-9228S-16	TL-9228S-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))			✓

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