

## **COL5181HA H.264 HD Encoder**



### **Outline**

COL5181HA H.264 HD encoder is a professional HD 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
- Support "Null PKT Filter" function
- Control via web management, and easy updates via web

### Technical specification

<b>Input</b>	8/16/24 HDMI inputs		
<b>Video</b>	<b>Resolution</b>	<b>input</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</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 )
<b>Audio</b>	<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
<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>	<b>Dimension (W×L×H)</b>	482mm×328mm×44mm	
	<b>Environment</b>	0~45 °C(work) ; -20~80 °C (Storage )	
	<b>Power requirements</b>	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz	

### Principle Chart (Each Encoder Module)

