

## COL5011H HD H.264 Encodulator



### Outline

COL5011H HD H.264 Encodulator is a professional high integration device which includes encoding, multiplexing, and modulation. It supports 8/12/16/24 HDMI input, 1000M IP output, 4 number RF output (ATSC, ISDBT, DVB-C/-T), 5 MPTS output and SPTS output. 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.

### Main Features

- ✓ 8/12/16/24 HDMI input, MPEG-4 AVC/H.264 Video encoding
- ✓ 1000M IP output over UDP and RTP protocol (MPTS and SPTS)
- ✓ 4 RF output (ATSC, ISDBT, DTMBT, DVB-C/-T)
- ✓ 2 ASI inputs
- ✓ 2 ASI Independent output (optional) as copy of 5MPTS
- ✓ Support "Null PKT Filter" function

- ✓ Support PID Remapping/ PCR accurate adjusting
- ✓ PID pass
- ✓ LCD、key function
- ✓ Control via web management, and easy updates via web

### Specification

<b>input</b>	HDMI(8/12/16/24 HDMI)	
	2 ASI inputs	
<b>output</b>	4RF output (DVB-C/DVB-T/ATSC/ISDBT)	
	2 ASI output	
	IP output (SPTS and MPTS) IP output over UDP and RTP protocol	
<b>video</b>	<b>Encoding</b>	MPEG-4 AVC/H.264
	<b>Resolution</b>	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,720x576_25P,720x480_30P
	<b>Bit-rate</b>	1Mbps~13Mbps (each channel)
	<b>Rate Control</b>	CBR
	<b>Audio</b>	<b>Encoding</b>
<b>Audio</b>	<b>Sampling rate</b>	44.1KHz and 48KHz
	<b>Bit-rate</b>	64kbps , 128Kbps,192kbps,224kbps,256kbps,320kbps,384k bps
	<b>Resolution</b>	24-bit
	<b>Audio Gain</b>	0-255 Adjustable
	<b>Multiplexing</b>	<b>Maximum</b>

	<b>PID Remapping</b>			
	<b>Function</b>	PID remapping ( automatically or manually) Accurate PCR adjusting		
<b>Modulator</b>	<b>DVB-T</b>	RF number	4 DVB-T	
		Standard	EN300744	
		FFT mode	2K	
		bandwidth	6M, 7M, 8M	
		Constellation	QPSK, 16QAM, 64QAM	
		Guard Interval	1/4, 1/8, 1/16, 1/32	
		FEC	1/2, 2/3, 3/4, 5/6, 7/8	
		MER	≥42 dB	
		RF frequency	50~960MHz, 1KHz step	
		RFoutput level	-34~ -10 dBm, 0.1db step	
	<b>DVB-C</b>	RF number	4 RF output	
		Standard	EN300 429/ITU-T J.83A/B/C	
		MER	≥40db	
		RF frequency	50~960MHz, 1KHz step	
		RFoutput level	-34~-10dBm , 0.1dBm step	
		Symbol Rate	5.0Msps~7.0Msps, 1ksps stepd	
			J.83A	J.83B/J.83C
		Constellation	16/32/64/128/256QA M	64/256 QAM
		Bandwidth	8M	6M
		<b>ATSC</b>	RF number	4 RF output
	Standard		ATSC A/53	
	Bandwidth		6M	
	Constellation		8VSB	
	FEC		RS(208 188)+Trellis	
	MER		≥40dB	
	RF frequency		50~960MHz, 1KHz step	
	RFoutput level		-34~-10dBm , 0.1dBm step	
	<b>ISDBT</b>	RF number	4 RF output	
Standard		ARIB STD-B31		
Bandwidth		6M		
Constellation		QPSK, 16QAM, 64QAM		

		Guard Interval	1/32, 1/16, 1/8, 1/4
		Transmission Mode	2K
		Code rate	1/2, 2/3, 3/4, 5/6, 7/8
		MER	≥40dB
		RF frequency	50~960MHz, 1KHz step
		RFoutput level	-34~-10dBm , 0.1dBm step
<b>System function</b>	Network management(WEB)		
	Chinese and English language		
	Ethernet software upgrade		
<b>Miscellaneous</b>	<b>Dimension(W ×L×H)</b>	550mm×515mm×140mm	
	<b>weight</b>	6kg	
	<b>Environment</b>	0~45°C(work); -20~80°C(storage)	
	<b>Power requirements</b>	AC100~240V, 50/60Hz	