

COL5011V HD H.264 Encodulator



Outline

COL5011V HD H.264 Encodulator is a professional high integration device which includes encoding, multiplexing, and modulation. It supports 8/12/16/20/24 HDMI input, 1000M IP output, 8 number RF output (ATSC, ISDBT, DVB-C/-T), 9 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

- ✓ 8/12/16/20/24 HDMI input, MPEG-4 AVC/H.264 Video encoding
- ✓ 1000M IP output over UDP and RTP protocol(MPTS and SPTS)
- ✓ 8 RF output ,(ATSC,ISDBT, DVB-C/-T)
- ✓ IP input
- ✓ 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

input	HDMI(8/12/16/20/24 HDMI)	
	IP input	
output	8RF output (DVB-C/DVB-T/ATSC/ISDBT)	
	IP output (SPTS and MPTS) over UDP and RTP protocol	
video	Encoding	MPEG-4 AVC/H.264
	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,720x576_25P,720x480_30P
	Bit-rate	1Mbps~13Mbps (each channel)
	Rate Control	CBR
Audio	Encoding	MPEG1 Layer2
	Sampling rate	44.1KHz and 48KHz
	Bit-rate	64kbps , 128Kbps,192kbps,224kbps,256kbps,320kbps,384k bps
	Resolution	24-bit
	Audio Gain	0-255 Adjustable
Multiplexing	Maximum PID	180 output pids per channel
	Remapping	
	Function	PID remapping (automatically or manually)
		Accurate PCR adjusting

Modulator	DVB-T	RF number	8 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	
	DVB-C	RF number	8 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	16/32/64/128/256QAM	64/256QAM
	Bandwidth	8M	6M	
	ATSC	RF number	8 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	
	ISDBT	RF number	8 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		



System function	Network management(WEB)	
	Chinese and English language	
	Ethernet software upgrade	
Miscellaneous	Dimension(W × L × H)	550mm × 515mm × 140mm
	weight	6kg
	Environment	0~45°C(work); -20~80°C(storage)
	Power requirements	AC100~240V, 50/60Hz